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Revisions to the Mathematical Model Used in the SEPHIS and MATEX Computer Codes for Calculating Distribution Coefficients for U(VI), Pu(IV), and Nitric Acid in the Purex Chemical System

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M. E. Whatley

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REVISIONS TO THE MATHEMATICAL MODEL USED IN THE SEPHIS AND MATEX COMPUTER CODES FOR CALCULATING DISTRIBUTION COEFFICIENTS FOR U(VI), Pu(IV), AND NITRIC ACID IN THE PUREX CHEMICAL SYSTEM

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ABSTRACT

The current model in the SEPHIS and MATEX codes for predicting the distribution coefficients for uranium, plutonium, and nitric acid in 30% tributyl phosphate (TBP) was examined by comparing approximately 2000 experimental data points with calculated values for the same conditions. The model for the plutonium distribution coefficient was modified as a result of this comparison.

Four parameters within the model were adjusted resulting in a 20% to 30% decrease in the plutonium distribution coefficient variance and a 10% to 20% reduction in the uranium distribution coefficient variance. A fifth parameter was modified to improve the model performance at low TBP concentrations. Approximately 180 experimental data points covering 5% to 20% TBP were used in this analysis. This modification reduced the sum of the squares error by ~23%. The impact of these changes are assessed through analysis of MATEX calculations of typical solvent extraction applications.

A tabular listing of distribution coefficients based on the modified model is presented for the following ranges: uranium concentration, 0 to 200 g/L; plutonium concentration, 0 to 100 g/L; nitric acid concentration, 0.1 to 5 *M*; temperature, 25 and 40°C; and TBP concentrations, 10%, 20%, and 30%. The computer program and a user's guide for generating the tables and distribution coefficient maps are included.

1. INTRODUCTION

The use of high-speed centrifugal solvent extraction contactors may allow the implementation of large numbers of stages at a minimal cost. The use of these additional stages may then permit more difficult separations that are not currently attempted, for example, the separation of plutonium(IV) and uranium(VI) without the reduction of the plutonium. In addition, advances in process control methods could allow much tighter extraction systems that achieve higher decontamination factors (DFs) per cycle and thus minimize the number of solvent extraction cycles required. To develop such systems, accurate prediction of the component distribution coefficients is necessary.

One model that describes the uranium-plutonium-nitrate acid-tributyl phosphate (TBP) system was developed by W. S. Groenier,[1] who used expressions developed by D. E. Horner.[2] This model was improved further by G. L. Richardson and J. L. Swanson[3] and by S. B. Watson and R. H. Rainey.[4] The model predicts the distribution of uranium, plutonium, nitric acid (HNO_3), inextractable nitrates, and Pu(III) at various temperatures and TBP concentrations.

Several computer codes that are now available to examine Purex flowsheets use some form of this model. One is the SEPHIS code,[5–7] and another is the MATEX code.[8,9] The SEPHIS code was developed to predict the transient or steady-state concentrations in a series of equilibrium contactors. This code also attempts to model the conditions found in various types of contacting equipment by considering holdup delays in the interstage flows. The MATEX code, on the other hand, allows rapid (in terms of computer time) predictions of steady-state concentrations for a series of equilibrium stages. A second-generation MATEX code provides for user-designated operating variables that can be modified by the program in an iteration to arrive at the particular values that satisfy a user-specified performance condition.

How well either of these codes will work is dependent on how accurately the model of the distribution coefficients can predict the correct values. R. T Jubin[10] improved the distribution model developed by Richardson and reported by Watson and Rainey.[4] Jubin's work provided a modification term for plutonium based on data compiled by Petrich.[11] In 1981, the compilation was expanded by G. Petrich and Z. Kolarik.[12]

An assessment of the behavior of MATEX during calculations on the plutonium cycles of the Breeder Reprocessing Engineering Test (BRET) flowsheet made it clear that the effect of temperature on the distribution coefficient of plutonium was not correctly described by the subroutine UCORPU. This study was therefore undertaken to effect appropriate remedial changes, which have now been incorporated. This report presents the reasons for the revisions, briefly assesses the effect of the revisions on calculated results from MATEX, and provides a program for producing a tabularized prediction of distribution coefficients for the Purex system.

2. DEVELOPMENT OF THE UCORPU MODIFICATIONS

The following facts were available at the outset of this study:

1. UCORPU uses many parameters to generate its distribution coefficients, and these are not independent. Specifically, a parameter that might be primarily important for the plutonium distribution coefficient will also affect the other distribution coefficients.
2. The magnitude of the errors were large enough that some correction to the effect of temperature on the plutonium distribution coefficient was needed.
3. The correction to the calculated distribution coefficient for plutonium in the form of a divisor was an artifact of an early error and, in fact, caused the values to trend in the wrong way. This divisor, henceforth called DEN, was deleted during the study.
4. The uranium distribution coefficient, as calculated by UCORPU, was low by perhaps 12%.
5. The distribution coefficient data available today (primarily from a compilation by German scientists) is very much better than the data that formed the original basis for UCORPU.
6. Even these data scatter severely, and attempts to establish new values for the parameters in UCORPU did not yield sharp, well-defined minima for variance.
7. The fairly flat optima from which the parameters could be set are quite sensitive to how the data are screened to define a usable subset and to how the errors in the uranium and the plutonium fits were weighted to establish an objective function.

The approach used required the identification of the parameters for study and the definition of four subsets of data from the latest available data compiled by Petrich.[12] For each subset and for each combination of candidate values for the parameters, a variance based on a fractional error between the calculated and experimental distribution coefficients for both the uranium and the plutonium was calculated. Finally, weighting factors were chosen by which weighted averages of the variances could be used for criteria. The nature of the problem, unfortunately, precluded setting up a single optimization calculation. It was necessary to examine many calculations to qualitatively evaluate the trends and to employ a subjective evaluation of what was more important in each case.

Date used for the study are comprehensive and include all available data regardless of quality. The first step was to screen out those points of dubious validity for the study.

These points were not used in any calculation. Petrich and Kolarik had assisted us by designating suspect data by negative signs.[12] All points so designated were eliminated as were all points where the distribution coefficient was very small (0.0001) and the component was present at ≤0.01 g/L. As different subsets of the data were analyzed, occasional points were determined acceptable for inclusion in one variance but not the other, and some points were considered acceptable for both. Uranium points were acceptable only if the experimental distribution coefficient and the uranium concentration were greater than zero. Plutonium points were included only when the acidity was greater than 0.29 *M* and the plutonium concentration was greater than 0.014 g/L. If the uranium concentration was less than 10 g/L, the plutonium was required to exceed 0.14 g/L.

The set of all valid points was designated as population 0. In this data set, there were a total of 1860 points, of which 603 contributed to the plutonium variance and 1222 contributed to the uranium. Also, included were 185 points that contributed only to the nitric acid. This data base covered the following ranges:

TBP	30%
U(VI)	0–349 g/L
Pu(IV)	0–114 g/L
HNO_3	0–10.3 *M*
Temperature	0–72°C

The subset that included only good plutonium points was designated as population 1. It was screened to the same criteria used to accept a point in the variance accumulation. All points where the acid in the aqueous phases was less than 0.29 *M* were rejected. Points with a plutonium concentration less than 0.14 g/L were discarded unless the uranium concentration was greater than 10 g/L. Points with plutonium concentrations less than 0.014 g/L were all discarded. This set contributed 603 points to the plutonium variance and 335 points to the uranium.

A population consisting of good uranium points where plutonium is of no importance was designated population 2. Acceptable points had uranium concentrations greater than 0.1 g/L and plutonium concentrations less than 5.0 g/L. From this, 134 points contributed to the plutonium variance and 988 points to the uranium.

Because we were interested in the effect of temperature and because most of the data were taken at 25°C, a subset was defined restricted to the good plutonium data, except that taken at 25°C. This subset was called population 3. From this, 377 points contributed to the plutonium variance and 235 to the uranium.

To define an objective function for use in establishing a minimum, three different weighting factors were applied to the uranium variance. When population 2 was studied (the good uranium points), the variance of the uranium errors was generally much less than the variance of the plutonium errors, and ten times the uranium variance was slightly larger than the plutonium variance. Therefore, this factor was used. Population 1 (the good plutonium points only) generally yielded a somewhat larger uranium variance and a somewhat smaller plutonium variance. A weighting factor of four times the uranium variance brought these to comparable magnitude. For population 3 (which excluded the 25°C data) the uranium and plutonium variances were more nearly of the same magnitude and could

be added without a factor. Only these three weighting factors, 10, 4, and 1, were used throughout the study. Often the two most appropriate factors were both used in a given study to compare the results.

The parameters in UCORPU selected for study are identified as FFUU, FFPU1, FFPU2, and CEXP in the listing of a modified version of UCORPU shown in Table 1. The CEXP is the coefficient of the temperature term DRT in the expression that embodies the effect of temperature on the plutonium equilibrium constant. The justification for including it in the study is obvious. Changing CEXP, however, must have the effect of changing the average value for the plutonium distribution coefficient for the whole data set, and compensation for this by the manipulation of a complimentary factor was required. Three terms in the empirical expression related the plutonium equilibrium constant to the uranium equilibrium constant: (1) a simple constant, (2) a term expressing the dependence on the TBP concentration, and (3) a term consisting of a factor times the total nitrate squared.

Because all data available for this study were at the same TBP concentration (30%), the TBP term was left unchanged. The simple factor and the coefficient to the total nitrate term were independently varied. Subsequent results justified this arbitrary decision. These parameters were FFPU1 and FFPU2.

The inclusion of the fourth parameter was mandated by an unexpected discrepancy in the fit. It was expected that there would be some shift in the uranium distribution coefficient because of the change in available (free) TBP when the plutonium distribution coefficient changed, but the large magnitude of the effect was surprising. A factor, FFUU, applied directly to the calculated uranium equilibrium constant thereafter became an additional parameter in the study. Surprise was compounded when the effect was seen to be equally strong for data without plutonium present, and the conclusion that UCORPU had been calculating low values for the uranium equilibrium constant was unavoidable. These four parameters formed the minimum set necessary to effect the required correction to UCORPU.

Having initiated a study such as this, one was tempted to extend the scope to include additional parameters that might be suspect. It was found, however, that more than four parameters caused the statistical inferences from the data to be questionable. Further refinement of the model will require a different, more comprehensive approach, preferably based on the reexamination of the bases upon which the model is built.

From this study, the recommended values for the parameters are:

Parameter	New value	Old value
FFUU	1.130	1.000
FFPU1	0.135	0.200
FFPU2	0.010	0.0074
CEXP	0.800	0.200

The significance of the changes is illustrated in Table 2, which shows variances for each of the four populations of data using the new parameters, the old parameters without the DEN correction, and the old parameters with the DEN correction. The populations are as previously defined. The variances calculated are for the appropriate subsets from the

Table 1. FORTRAN listing of UCORPU showing parameters

```
      SUBROUTINE UCORPU(F,TEMPC,ARY,DTRY)
C  RETURNS DISTRIBUTION COEFFICIENTS WHEN GIVEN X, CTBP, AND TEMPI.
C  THE DISTRIBUTION COEFFICIENT IS THE RATIO OF ORGANIC TO
C  AQUEOUS CONCENTRATIONS AT EQUILIBRIUM.
C  CTBP IS F, THE AQUEOUS CONCENTRATINS (X) ARE IN ARY
C  AND THE DISTRIBUTION COEFFICIENTS WIND UP IN DTRY.
C  *** VERSION AUG 5, 1983
C
      IMPLICIT REAL*8 (A-H,O-Z)
      DIMENSION ARY(6),DTRY(6)
      COMMON/ROOF/XTOP(6)
      COMMON/ADJUST/DISFAC,DENR(8)
      COMMON/CUCO/FFPU1,FFPU2,FFUU,CEXP
      PUTOT=ARY(3)+ARY(4)
      HAM = ARY(1)
      UAM = ARY(2)
      PUAM = ARY(3)
      REDU = ARY(5)
      SNITR = ARY(6)
      IF(UAM.LT.0D0) UAM = 0.0D0
      IF(UAM.GT.XTOP(2)) UAM=XTOP(2)
      IF(PUAM.LT.0.0D0) PUAM = 0.0D0
      IF(PUAM.GT.XTOP(3)) PUAM=XTOP(3)
      IF(HAM.LT.0.0D0) HAM = 0.0D0
      IF(HAM.GT.XTOP(1)) HAM=XTOP(1)
      IF(REDU.LT.0.0D0) REDU = 0.0D0
      IF(SNITR.LT.0.0D0) SNITR = 0.0D0
      PUIII = PUTOT - PUAM
      IF(PUIII.LT.0.0D0) PUIII = 0.0D0
C  COEF FOR PUIII REDUCED FROM 4 TO 2  AUG 5,1983
      TNM = HAM +REDU +SNITR +2.0D0*(UAM +PUAM +PUIII)
C      IF(TNM.LT.1.D-12) TNM = 1.D-12
      IF(TNM.GT. 12.D0) TNM=12.D0
      DRT = 1.D3/(TEMPC + 273.16D0) - 3.3539D0
      UK  = 3.7D0*TNM**1.57D0+ 1.4D0*TNM**3.9D0 + 0.011D0*TNM**7.3D0
      UK  = UK*(4.0D0/F**0.17D0 - 3.0D0)
      UK=FFUU*UK
      PUK = UK*(FFPU1 + .55D0*F**1.25D0 + FFPU2*TNM**2)
C      PUK = UK*(.20D0 + .55D0*F**1.25D0 + .0074D0*TNM**2)
      HK1 = 0.135D0*TNM**0.82D0 + 0.0052D0*TNM**3.44D0
      HK1 = HK1*(1.0D0 - 0.54D0*DEXP(-15.0D0*F))
      UK  = UK*DEXP(2.5D0*DRT)
C      PUK = PUK*DEXP(-.2D0*DRT)
      PUK = PUK*DEXP(-CEXP*DRT)
      HK1 = HK1*DEXP(0.34D0*DRT)
      HK2 = HK1
      A   = 2.0D0*(UK*UAM + PUK*PUAM + HK2*HAM)
      B   = HK1*HAM + 1.0D0
      C   =-3.65145D0*F
      IF(-A*C/B.GE.1.0D-10) GO TO 10
      TF  =-C/B
      GO TO 15
   10 CONTINUE
      TF  = (-B + DSQRT(B*B -4.0D0*A*C))/(2.0D0*A)
   15 CONTINUE
      DH1 = HK1*TF
      DH2 = HK2*TF*TF
      DH  = DH1 + DH2
      DU  = UK*TF*TF
      DPU = PUK*TF*TF
C      DENOM=.56777D0+.013118D0*TEMPC+.743579D0*UAM
C     &       -.17583D0*UAM*HAM
C      IF(DENOM.LT. .5D0)  DENOM=.5D0
C      DPU =DPU/DENOM
      DISFAC=DENR(1)+TEMPC*(DENR(2)+TEMPC*(DENR(3)+TEMPC*(DENR(4)+
     & TEMPC*(DENR(5)+TEMPC*(DENR(6)+TEMPC*(DENR(7)+TEMPC*DENR(8)))))))
      DTRY(1) = DH*DISFAC
      DTRY(2) = DU*DISFAC
      DTRY(3) = DPU*DISFAC
      DTRY(4)=0.0D0
      DTRY(5)=0.0D0
      DTRY(6)=0.0D0
 20   RETURN
      END
```

Table 2. Comparison of variances of errors of values of plutonium and uranium distribution coefficients calculated using the new parameters, the old parameters, and the old parameters with the DEN correction

	New parameters		Old parameters		Old with DEN	
Population	Pu	U	Pu	U	Pu	U
0	0.0267	0.0090	0.0412	0.0102	0.0520	0.0102
1	0.0267	0.0125	0.0412	0.0097	0.0520	0.0097
2	0.0512	0.0075	0.0932	0.0096	0.0729	0.0096
3	0.0158	0.0139	0.0310	0.0081	0.0577	0.0081

populations. The variances are (by classical definition) the mean of the square of the fractional errors between the experimental and the calculated values for the set of points. An average percent error (standard deviation) is obtained by extracting the square root and multiplying by 100. It is seen that variances for plutonium from the new values are less than those from the old. The least effect is noted in population 2, which excludes all points with significant plutonium concentrations. It is also only in population 2 that the DEN correction reduces the plutonium variance using the old parameters. The uranium variance is the same with and without the DEN correction using the old parameters because it is applied only to the plutonium distribution coefficient. For the two populations containing the bulk of the uranium points, a small but significant improvement is seen in the uranium variance when the new parameters are used. For populations 1 and 3, from which the bulk of the uranium points were excluded, the old parameters show somewhat better values for the uranium variance.

The uranium variances are generally lower than the plutonium variances, a finding one would expect from the generally more accurate data for uranium. Also, for those populations that favor plutonium, the plutonium variances are lower, and for those populations that favor uranium, the uranium variances are lower.

2.1 SENSITIVITY STUDY

A sensitivity study was also performed to assess the effect of each of the four parameters on variances from each of the four populations. Figure 1 shows the effect of CEXP on the respective variances. (Note that the plutonium variances from populations 1 and 0 are identical and given by the same curve.) As expected, CEXP has no effect on the uranium variance from population 2 and very little effect on the uranium variance from population 0. The small effect for populations 1 and 3, where uranium is mostly excluded, shows an improvement with increasing values of CEXP. For population 3, for which the temperature effect should be strongest, a clear minimum for the plutonium variance is found between CEXP values of 0.75 and 0.80. For populations 0 and 1, the minimum falls at about 0.8 but is less well defined. The very poorly defined minimum at 0.6 for population 2 is of no significance. The chosen value of 0.8 for CEXP is supported by these trends. The old value of 0.2 is well off the plot.

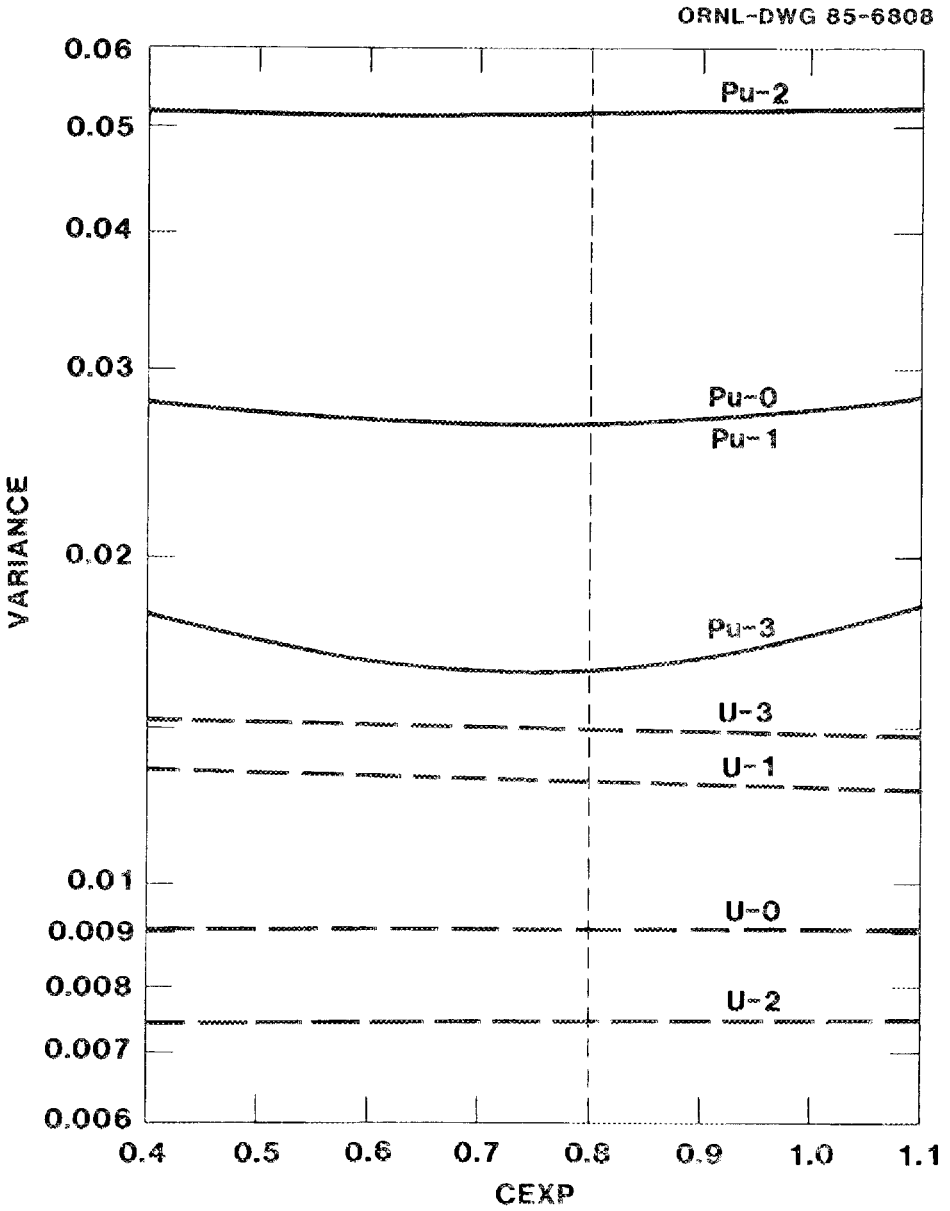

Fig. 1. Variance between experimental and calculated distribution coefficients for each data population as a function of CEXP.

Figure 2 shows that variances as a function of FFPU1 do not follow as consistent a pattern. Although the plutonium variance is of greatest importance in selecting a value for a parameter that primarily affects the plutonium distribution coefficient, a strong effect on the uranium variance is noted. The minimum for the plutonium variance for population 1 (and 0) falls at about 0.13, while for population 3 (less important) it falls at about 0.122. The fact that the plutonium variance minimum for population 2 (uranium points) is less than 0.10 is of no significance. The selected value of 0.135 for FFPU1 tends to consider the uranium effect. There is no support for the old value of 0.2.

In Fig. 3, which shows the variances as a function of FFPU2, we find a similarity in the behavior of the uranium variance, decreasing in all populations with an increase in the parameter. The minima in the plutonium variances are, however, much more sharp and tend to fall closer together. The selected value of 0.01 for FFPU2 was influenced by its effect on the uranium variances.

Figure 4, which shows the variances as a function of FFUU, reveals a disquieting diversity of minima. The uranium variances for populations 1 and 3 (which have largely excluded uranium) show distinct minima at FFUU less than 1.00. The minimum for the uranium variance for population 0 (which is important) falls at 1.10, while for population 2 (most important) it falls at 1.13. The minima for the plutonium variances for all populations are strong and fall at values above 1.17. This sort of disparity is an indication that either something is wrong with the data or something is wrong with the model. The selected value of 1.13 of FFUU is a reasonable compromise.

2.2 IMPACT OF CHANGES ON MATEX PREDICTIONS

To assess the impact of the changes in UCORPU on the calculations that have already been made and reported, four test cases were run with MATEX using both the old and new versions so that the results could be compared. These were (1) a plutonium purification extraction and scrub, (2) a uranium purification extraction and scrub, (3) a uranium strip, and (4) a partitioning with reduction. The inputs to MATEX for these four test cases are shown in Table 3.

For the first case, in which the greatest effect was expected, temperature was varied from 25 to 70°C. [Note that both the scrub rate and the extractant rate were varied. These were held by FIDDLE (a user-defined subroutine of MATEX) to a constant ratio.] The results of the MATEX calculations are shown in Table 4. The results were dramatic in that the required solvent rate to achieve 0.001% loss was found to increase by over 50% over this temperature span using the old version of UCORPU, while it was found to decrease slightly more than 10% with the new version.

The second test case involved no plutonium so that the effect resulting from extracting only uranium could be assessed. This extraction-scrub problem is a typical purification cycle that loads the solvent with uranium to over 100 g/L and recovers 99.99% of the uranium. The old UCORPU showed a solvent requirement of 4.304 L/min, while the new showed a solvent requirement of 4.196 L/min. This is about a 2.5% decrease, which is much less than the expected 13% increase in equilibrium constant for uranium (from the new value of FFUU) because the solvent is so highly loaded. The concentration profile through the cascade was generally less than 2% different in the two calculations.

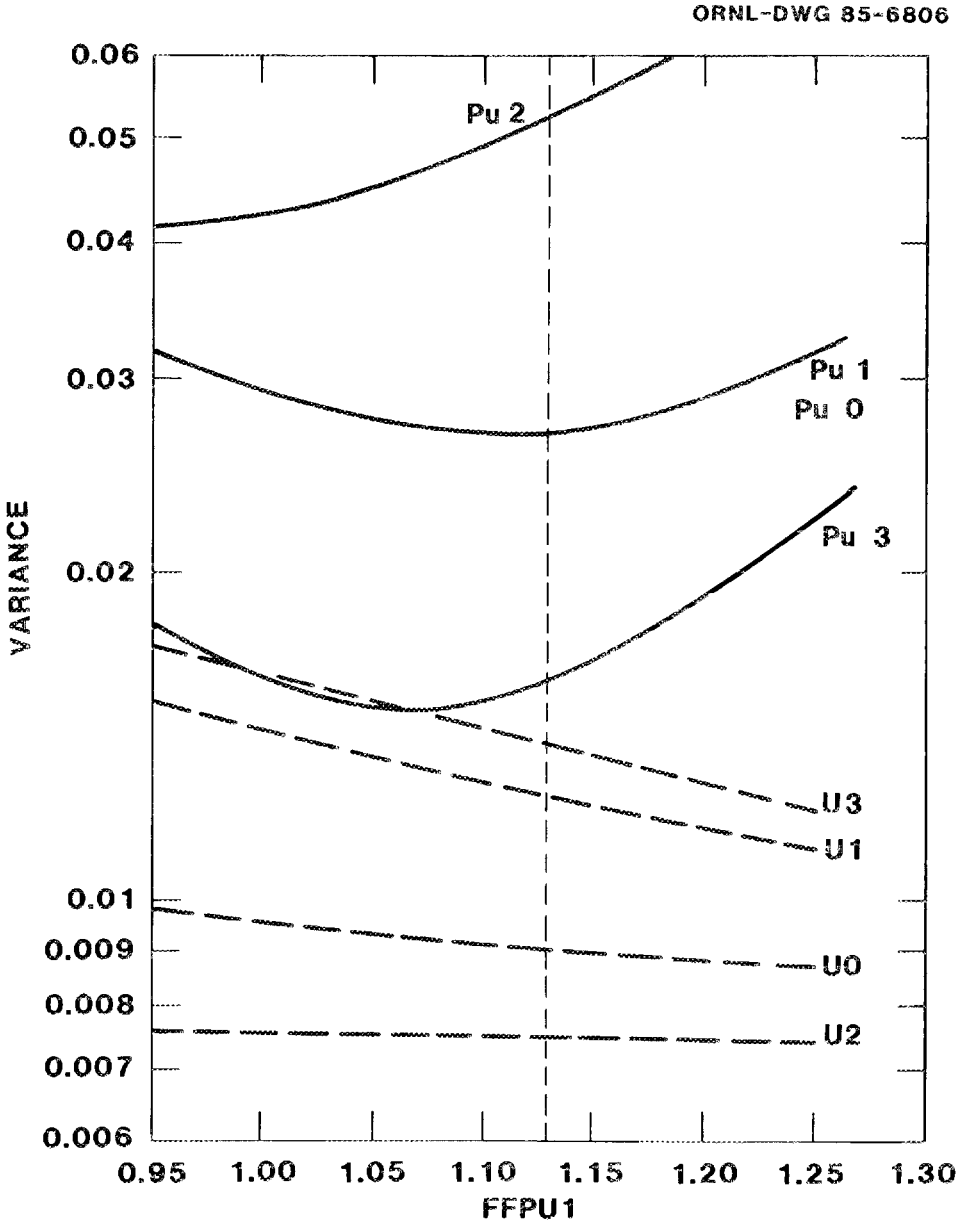

Fig. 2. Variance between experimental and calculated distribution coefficients for each data population as a function of FFPU1.

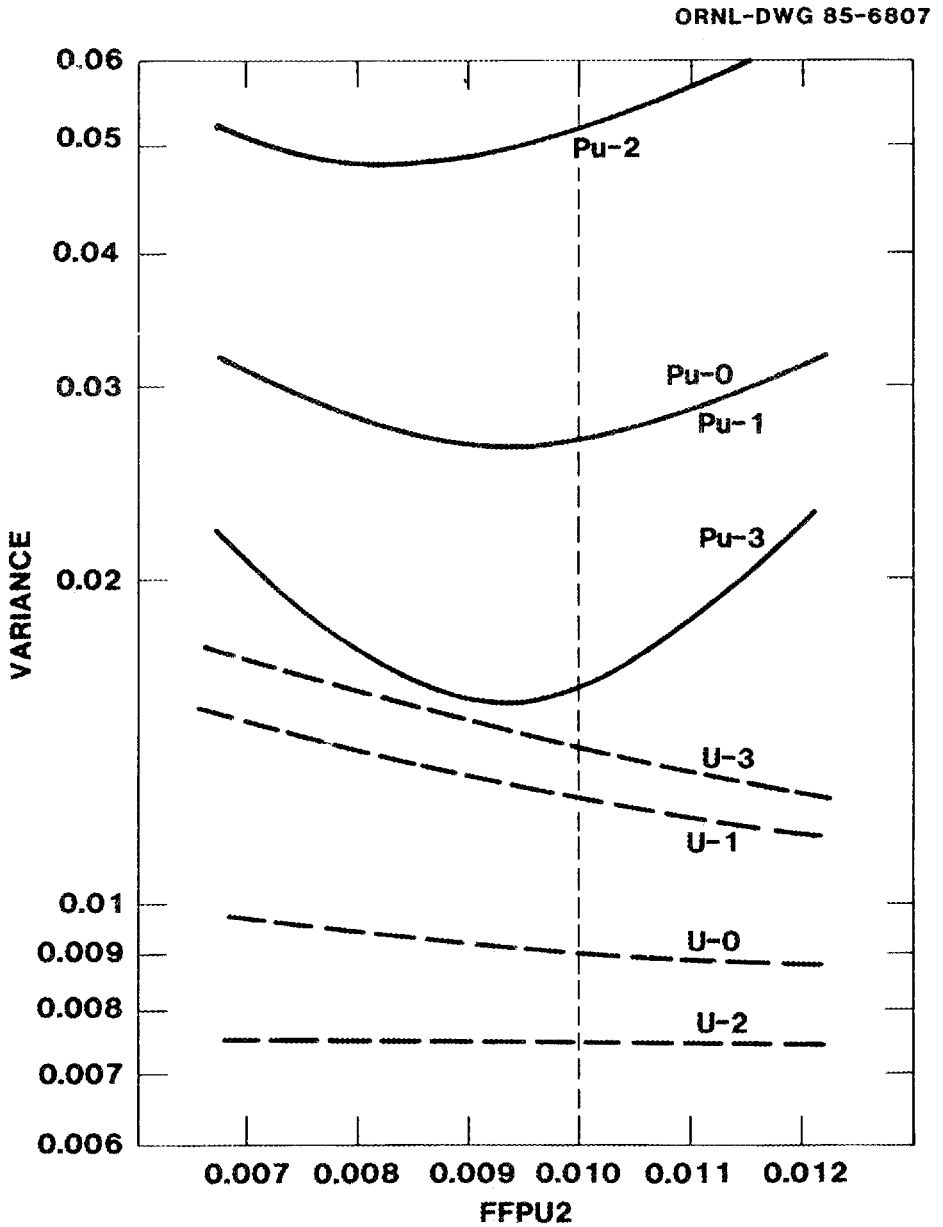

Fig. 3. Variance between experimental and calculated distribution coefficients for each data population as a function of FFPU2.

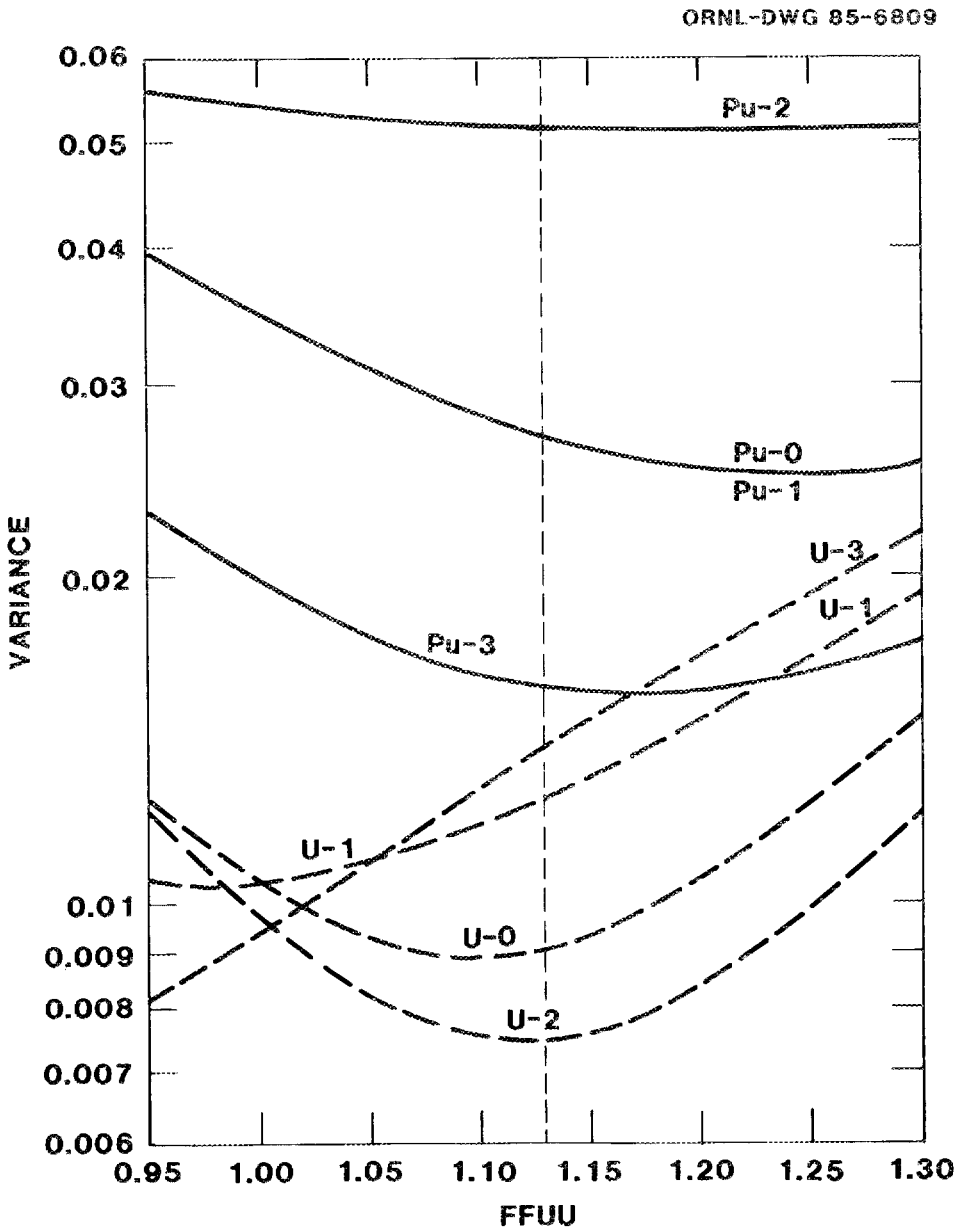

Fig. 4. Variance between experimental and calculated distribution coefficients for each data population as a function of FFUU.

Table 3. MATEX input data for four cases to compare the calculated results using old and new parameters

```
TTL       TEST CASE 1.
TTL 2A 40C (FFTF, PLUTONIUM PURIFICATION)
TTL CONTRIVED TO TEST MODIFICATION TO UCORPU
TEM  40.
CCC  C  C  C  FLOW  TEMP  HNO3     U  PUIV PUIII   RED   NO3
FIN  1  1     -2.4         1.0
FIN  9  1    18.00         3.0  .001 41.67
FIN 16  0   -12.0
OUI  1  1
OBS 16  1        X                        X
OBF  9  1        X                        X
OBF 16  0        X
      END OF PROBLEM
TTL       TEST CASE 2.
TTL  IET SX EFFECT OF LOW ACID
TTL   IN THE CENTRIFUGAL CONTACTORS
TEM 40.
CCC  C  C  C  FLOW  TEMP  HNO3     U  PUIV PUIII   RED   NO3
FIN  1  1    .8     50.   0.3
FIN  9  1    2.2    40.   1.0   150.
FIN 16  0    -6.0
TES  8  0  9 50.
CCC  C  C  C  FLOW  TEMP  HNO3     U  PUIV PUIII   RED   NO3
OBS 16  1      (1)                (2)
OBF  9  1      (3)                (4)
OBF 16  0      (5)
        END OF CASE
TTL       TEST CASE 3.
TTL  IET SX STRIP WITH STRANGE HSP
CCC  C  C  C  FLOW  TEMP  HNO3     U  PUIV PUIII   RED   NO3
FIN  1  1   -4.5    43.   0.02
FIN  7  0     4.0   45.   .34   85.
OUI  1  1
CCC  C  C  C  FLOW  TEMP  HNO3     U  PUIV PUIII   RED   NO3
OBS  1  0      (1)                (2)
OBF  7  0      (3)                (4)
OBF  1  1      (5)
        END OF CASE
TTL       TEST CASE 4.
TTL  FFTF FUEL - FLOWSHEET B - HB CONTACTOR  8 SEC.
TTL  SHORT RESIDENCE TIMES IN CONTACTOR
TEM 40.
RES  8.
OUI  1  1
CCC  C  C  C  FLOW  TEMP  HNO3     U  PUIV PUIII   RED   NO3
FIN  1  1   -13.38         .05                    .30   .03
FIN  6  0    32.80       .03   53.51 22.93
FIN 12  0     5.0
CCC  C  C  C              R.E.    ZR    RU    NP   NP6    CS
FPS  6  0                 100.  100.  100.  100.  100.  100.
OBS  1  0        1                        2
OBF  6  0        3                        4
OBF  1  1        5
CCC  C  C  C  FLOW  TEMP  HNO3     U  PUIV PUIII   RED   NO3
        END OF CASE
```

Table 4. Required organic phase rates for test case 1, optimized for 0.001% plutonium loss

Temperature (°C)	Rate	
	New UCORPU (L/min)	Old UCORPU (L/min)
25	10.41	9.31
30	10.18	9.99
35	9.97	10.69
40	9.80	11.43
50	9.55	13.06
70	9.28	15.60[a]

[a]7.12% plutonium loss.

The third test case involved the stripping of uranium from a ladened solvent. In this experiment, the strip rate was allowed to vary to establish the loss of 0.01%. With the old UCORPU, the required rate was 4.239 L/min, while with the new UCORPU, it was 4484 L/min. The 5.6% difference is consistent with the 13% difference that would be expected (from the value of FFUU) at very dilute conditions. The solvent feed was 85 g/L uranium. Had it been higher the effect would have been smaller as noted previously.

The fourth and final test case involved the partitioning of uranium and plutonium by using a reductant. The study was initially done to determine the effect of stage residence time on the performance of the system resulting from reduction kinetics. It is a complex case because the criterion for performance is based entirely on the plutonium loss to the exiting solvent (0.01%), while the uranium loss falls where it may. An assessment of which version yields the better results is therefore clouded, and attention is addressed only to the difference. Because the reduction kinetics equations were not changed, the differences in calculated results were caused by the differences in uranium distribution coefficients and in plutonium distribution coefficients. About 20% excess reductant was used at a temperature of 40°C. For the cases shown, a substantial amount of Pu(IV) was present in most stages, and several percent of the plutonium was Pu(IV) in the aqueous product (HBP).

The test results are shown in Table 5. It is clear that the reduction kinetics are important because smaller aqueous phase rates are required at longer residence times. Also, along with the smaller aqueous phase rates go smaller uranium losses. Why considerably lower required aqueous rates are calculated using the old UCORPU is not easily explained. The uranium distribution coefficient should be somewhat higher and the plutonium distribution coefficient slightly lower using the new UCORPU, but the uranium and plutonium interact in a complex way. The concentrations of Pu(IV) and Pu(III) also affect the reduction rate.

From the preceding discussion, it is clear that the revisions to UCORPU (and hence to MATEX) cause the results from calculated cases to be different. For most straightforward extraction cases where loadings of uranium are high, the difference is likely to be only a few percent. For cases where the loadings are low, differences approaching 10% can

Table 5. Required aqueous rates (HBX) to effect a 0.01% Pu loss during partitioning with hydroxylamine nitrate (HAN) (case 4)

Stage residence time (s)	New UCORPU		Old UCORPU	
	HBX rate (L/min)	U loss (%)	HBX rate (L/min)	U loss (%)
2	14.10	2.6	13.20	3.9
8	13.80	0.66	10.73	0.46
20	12.61	0.22		

be expected. For cases involving primarily plutonium and using temperatures much above 30°C, larger differences can be expected—in extreme cases exceeding 50%.

The analysis described previously once again was based solely on 30% TBP. Data recently obtained from the United Kingdom[13] contains distribution coefficients for nitric acid, uranium, and plutonium at low TBP concentrations (5 to 20% volume) and at low temperatures (6 to 30°C). The ranges for 183 data sets are described in Table 6. These data were compared with values of distribution coefficients as predicted by the original UCORPU and UCORPU optimized for 30% TBP. The results of that comparison are shown in Table 7. From this table, it is obvious that the modified UCORPU consistently produces lower errors for uranium distribution coefficients for each TBP level. It is equally obvious that the modified UCORPU constantly underestimates the plutonium distribution coefficient at low TBP levels (i.e., <30% volume). Based on these observations, an attempt was made to slightly alter UCORPU again in such a way that only the plutonium term would be affected for TBP cases of all but 30% volume.

Examination of UCORPU resulted in the selection of the plutonium pseudo-mass-action equilibrium constant expression:

$$K^*_{Pu} = K^*_U (0.20 + 0.55\, F^{1.25} + 0.0074\, N_a^2),$$

where

K^*_U = uranium mass action constant,

F = TBP volume fraction, and

N_a = total nitrate salting strength in the aqueous phase (molal) as a term suitable for modification.

The value of this term has minimal effect on the other terms, except through the free TBP expression, and is clearly a function of TBP concentration. Because the previously modified code shows significant improvements for all components at 30% TBP, it was desirable

Table 6. Ranges covered by recent U.K. distribution data

Percent TBP	No. of points	U (g/L)	Pu (g/L)	HNO_3 (M)	Temperature (°C)
5	45	0–98.5	0.603–12.62	0.29–3.090	6–30
10	21	0–84.35	0.866–9.865	0.267–0.509	6–12
15	14	0–73.9	0.844–9.88	0.280–0.350	6–12
20	103	0–73.999	0.3777–8.680	0.291–1.090	12.5–20
Total	183				

Table 7. Comparison of original UCORPU with 30% TBP optimized UCORPU at low TBP concentrations

	Average percent error[a] distribution coefficient		
	U	Pu	HNO_3
Original UCORPU			
Complete set	−13.70	−0.304	52.90
5% TBP	−8.43	5.03	39.14
10% TBP	−23.15	−2.60	157.21
15% TBP	−18.09	1.58	239.18
20% TBP	−13.49	−2.42	11.72
Modified UCORPU			
Complete set	−6.90	−21.60	47.90
5% TBP	−1.82	−10.29	34.86
10% TBP	−16.78	−31.80	146.10
15% TBP	−11.60	−27.92	223.91
20% TBP	−6.47	−23.60	9.40

[a] $100 \times \frac{\text{calculated value} - \text{experimental value}}{\text{experimental value}}$

not to alter the value of K^*_{Pu} at 30% TBP. To do this, FFPU3 was calculated from the selected value of FFPU4 such that the term FFPU3*F**FFPU4 was to equal 0.55 $(F)^{1.25}$ when F was 0.3. Separate analyses were performed for each TBP level in which FFPU4 was varied to find the minimum sum of the squares of the percent error and the point at which percent errors equaled zero, where

$$\text{percent error} = 100 \times \frac{\text{calculated} - \text{experimental}}{\text{experimental}} .$$

The resulting curves for the sum of the squares of percent error as a function of FFPU4 are plotted in Fig. 5, and the optimized values for FFPU3 and FFPU4 are presented in Table 8.

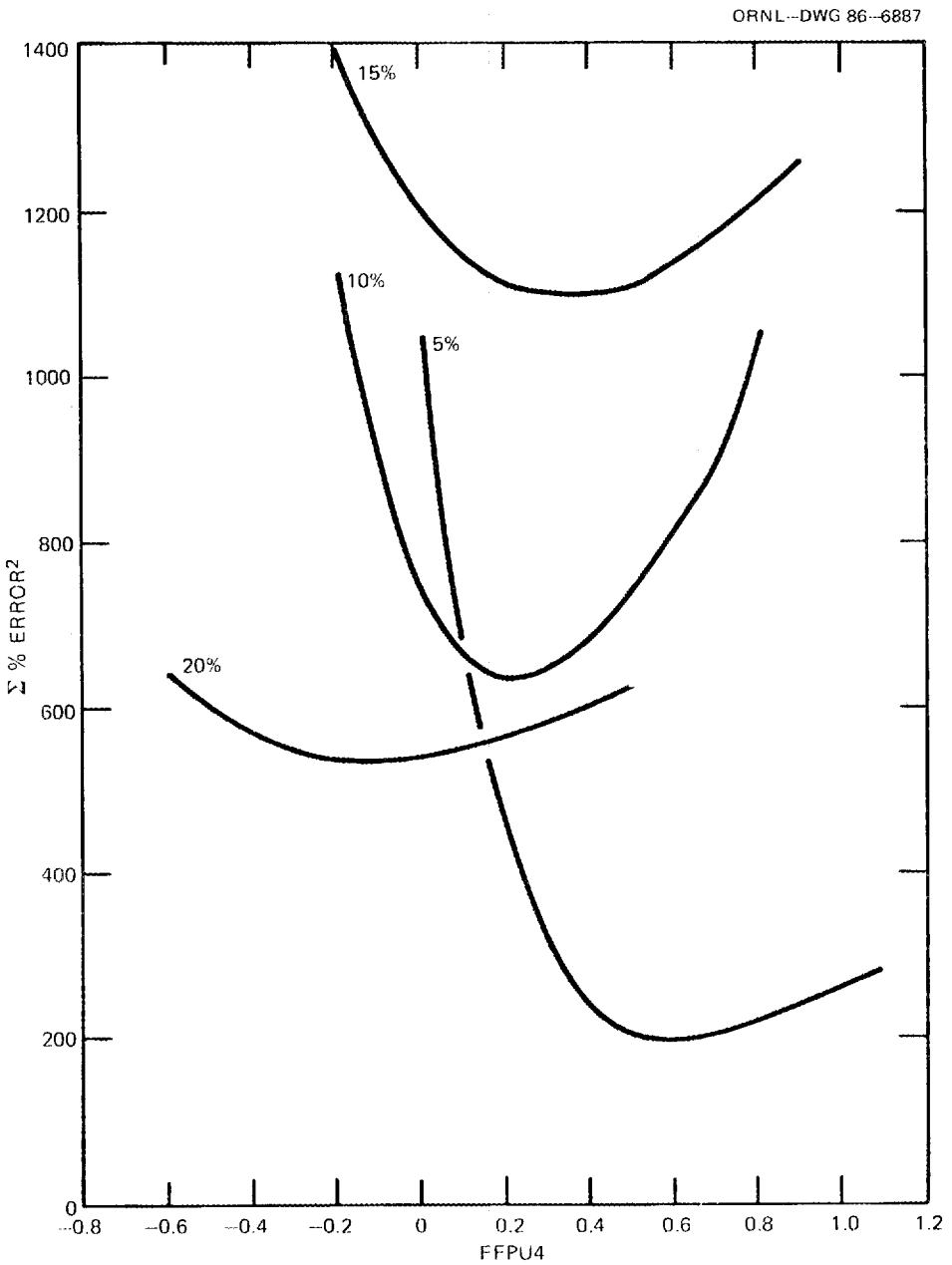

Fig. 5. Sum of the square of percent error as a function of FFPU4 normalized for number of data points.

Table 8. Optimized TBP term factors for the UCOR plutonium pseudo-mass-action equilibrium constant

	Zero Σ% error[a]		Minimum Σ(% error)[a]	
TBP (%)	FFPU3	FFPU4	FFPU3	FFPU4
20	0.0676	−0.3835	0.1087	−0.0960
15	0.1147	−0.0520	0.1804	0.3240
10	0.1333	0.0728	0.1574	0.2110
5	0.2515	0.600	0.2492	0.5925

[a]Percent error =

$$100 \times \frac{\text{calculated value} - \text{experimental value}}{\text{experimental value}} .$$

Because FFPU3 is a function of FFPU4, only FFPU4 needs to be defined. A least-squares fit was used to relate FFPU4 to the TBP concentration. This resulted in the following expression:

$$\text{FFPU4} = 0.7460 - 3.91\ (\text{TBP vol \%}) .$$

An expression, g, to replace the original TBP term as a function of the TBP concentration is easily derived from the problem constraint and the expression for FFPU4. The new TBP term can be expressed by:

$$g = 0.122113 \left(\frac{F}{0.3}\right)^{0.746 - 3.91 F} .$$

By replacing the original TBP term in the plutonium pseudo-mass-action equilibrium constant expression with the new expression, the average error was reduced by 22% when compared with the original UCOR values and 39% when compared with the earlier 30% TBP based on modification. A summary comparison of the performance of UCORPU at low TBP values is shown in Table 9.

The calculated distribution coefficient values at low TBP concentrations show a strong trend that has not yet been accounted for. The UCORPU, in all three forms, tends to underpredict the distribution coefficient for both uranium and plutonium at low heavy metal concentrations and overpredict at high heavy metal concentrations.

Table 9. Summary of UCORPU modification performance for low TBP concentrations data

	Original UCORPU	Initial 30% TBP modification	Low TBP modification
Average % error	−0.304	−21.60	−5.07
Σ (% error)	661.9	841.2	513.16
Standard deviation	25.79	19.40	22.137

3. MODIFICATIONS TO COEFF.DIS

The computer program, COEFF.DIS, was modified to include the previously described changes. This program will produce tabularized distribution coefficients to aid in a rapid comparison with experimental data and, more importantly, to aid in flowsheet design. Using these tables, the design engineer can quickly determine the effects of changes in operating parameters on a contactor's performance. Equilibrium diagrams can also be produced rapidly to determine whether a given flowsheet will perform as desired. The COEFF.DIS program eliminates many of the trial-and-error methods experienced with the SEPHIS program and can serve as a starting point for MATEX runs.

Appendix A contains the predicted distribution coefficients for the following ranges: uranium concentration, 0.01 to 200 g/L; Pu(IV) concentration, 0.01 to 100 g/L; nitric acid, 0.1 to 5 *M*; temperature, at 25 and 40°C; TBP, 10, 20, and 30%; inextractable nitrate, 0; and Pu(III) concentration, 0. These ranges are by no means the limits of the model but were chosen to limit the number of tables presented. Tables in any other specific range can be generated using the computer program, COEFF.DIS. A word of caution is important. While distribution coefficients are given in the tables for such conditions as 60 g/L plutonium, trace uranium, 0.1-*M* HNO_3, and 40°C, a high probability exists that a plutonium polymer will be a dominant species. It is vital to remember that, even if a value can be calculated, no useful result is guaranteed. To help identify such cases, the equation developed by Toth and Osborne,[14] which describes the time to form 2% plutonium polymer, has been incorporated. This equation:

$$t = Pu_T{}^a \, HNO_3{}^b \; A \exp\left(\frac{c}{\theta}\right) , \tag{1}$$

where

θ	= °K
t	= hours
a	= −1.6
b	= 4.6
c	= 12,300 K
A	= 7.66 − 10^{-16} h M^{-3}
Pu_T	= total plutonium concentration, mol/L
HNO_3	= nitric acid concentration, mol/L

was rearranged to give plutonium in terms of time, acid concentration, and temperature.

For each table, a check is performed, and a printed message appears on the tables where conditions are such that 2% polymer could form in 1 h. The 1-h time was arbitrarily chosen and can be varied by changing the value of "time" in the program. The three-dimensional surface plots shown at the end of Appendix B provide perspective of the effects of acid concentration, TBP concentration, and temperature upon the distribution coefficients.

Figures A.1 through A.3 show the effects on the uranium distribution coefficients at three different HNO_3 concentrations: 0.1 *M*, 0.5 *M*, and 5 *M*, respectively. Figure A.1 has a TBP concentration of 10 vol % and a temperature of 25°C. Figure A.2 changes the TBP concentration to 30 vol %, and Fig. A.3 raises the temperature to 40°C as well as changing the TBP concentration to 30 vol %.

Figures A.4 through A.9 are a series of distribution coefficient profiles for uranium, plutonium, and nitric acid changing only the nitric acid concentration in the aqueous phase. The HNO_3 concentrations covered are 0.1, 0.3, 0.5, 1, 3, and 5 *M*, respectively. The scale of each plot changes slightly in the *Z* direction (distribution coefficient) to fill the plotting area. The relationship between the plots can be seen by comparing the uranium distribution coefficient surface from Fig. A.4, A.6, and A.9 to Fig. A.2.

Appendix B contains the user's guide for COEFF.DIS, and Appendix C contains a program listing of COEFF.DIS and a sample of job control language (JCL) for its use.

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APPENDIX A

DISTRIBUTION COEFFICIENT TABLES AND MAPS FOR URANIUM, Pu(IV), AND NITRIC ACID IN THE SYSTEM OF URANYL NITRATE, Pu(IV) NITRATE, NITRIC ACID, WATER, AND TBP IN ALPHATIC DILUENTS

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 0.10
TBP - VOLUME FRACTION - 0.100
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	0.04	0.08	0.11	0.16	0.20	0.25	0.31	0.36	0.41	0.46	0.50	0.55	0.59	0.63	0.66	0.69	0.71	0.73	0.75	0.77	0.78
10.0	0.11	0.15	0.19	0.23	0.28	0.32	0.36	0.40	0.43	0.47	0.50	0.53	0.55	0.58	0.60	0.61	0.63	0.64	0.65	0.66	0.66
20.0	0.18	0.22	0.25	0.29	0.32	0.35	0.38	0.41	0.44	0.46	0.48	0.50	0.51	0.53	0.54	0.55	0.56	0.57	0.57	0.58	0.58
30.0	0.23	0.26	0.29	0.32	0.34	0.37	0.39	0.41	0.42	0.44	0.45	0.46	0.48	0.48	0.49	0.50	0.50	0.51	0.51	0.51	0.52
40.0	0.27	0.29	0.31	0.33	0.35	0.37	0.38	0.39	0.41	0.42	0.43	0.43	0.44	0.45	0.45	0.46	0.46	0.46	0.46	0.46	0.46
50.0	0.29	0.30	0.32	0.33	0.35	0.36	0.37	0.38	0.39	0.39	0.40	0.40	0.41	0.41	0.42	0.42	0.42	0.42	0.42	0.42	0.42
60.0	0.29	0.31	0.32	0.33	0.34	0.35	0.35	0.36	0.37	0.37	0.37	0.38	0.38	0.38	0.39	0.39	0.39	0.39	0.39	0.39	0.39
70.0	0.29	0.30	0.31	0.32	0.33	0.33	0.34	0.34	0.35	0.35	0.35	0.35	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
80.0	0.29	0.30	0.30	0.31	0.31	0.32	0.32	0.32	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.34	0.34	0.33	0.33	0.33	0.33
90.0	0.28	0.29	0.29	0.30	0.30	0.30	0.30	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
100.0	0.27	0.28	0.28	0.28	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.30	0.30	0.29	0.29	0.29	0.29	0.29	0.29	0.29
110.0	0.26	0.27	0.27	0.27	0.27	0.27	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.27	0.27
120.0	0.25	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
130.0	0.24	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.24	0.24
140.0	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.23	0.23	0.23	0.23
150.0	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.22	0.22	0.22
160.0	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.21	0.21
170.0	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.20	0.20
180.0	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.19
190.0	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18
200.0	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18

CAUTION --- POSSIBLE 2% PU POLYMER FORMATION IN 1.00 HOURS FOR PLUTONIUM CONCENTRATIONS IN EXCESS OF 18.18 G/L.

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 0.10
TBP - VOLUME FRACTION - 0.100
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	0.01	0.02	0.02	0.03	0.04	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.15	0.16	0.17	0.17	0.17	0.18
10.0	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.10	0.11	0.12	0.12	0.13	0.13	0.14	0.14	0.14	0.15	0.15	0.15
20.0	0.04	0.05	0.06	0.06	0.07	0.08	0.08	0.09	0.10	0.10	0.11	0.11	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13
30.0	0.05	0.06	0.06	0.07	0.08	0.08	0.09	0.09	0.09	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12
40.0	0.06	0.06	0.07	0.07	0.08	0.08	0.08	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11
50.0	0.06	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
60.0	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
70.0	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09
80.0	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
90.0	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
100.0	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
110.0	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
120.0	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
130.0	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07
140.0	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
150.0	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
160.0	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
170.0	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
180.0	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06
190.0	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
200.0	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

CAUTION --- POSSIBLE 2% PU POLYMER FORMATION IN 1.00 HOURS FOR PLUTONIUM CONCENTRATIONS IN EXCESS OF 18.18 G/L.

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 0.10
TBP - VOLUME FRACTION - 0.100
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	0.90	1.20	1.46	1.74	1.99	2.21	2.42	2.61	2.77	2.92	3.04	3.14	3.22	3.27	3.32	3.34	3.35	3.35	3.34	3.32	3.29
10.0	1.44	1.68	1.90	2.09	2.27	2.43	2.56	2.67	2.77	2.84	2.90	2.95	2.98	3.00	3.01	3.01	3.00	2.98	2.96	2.93	2.90
20.0	1.82	1.99	2.15	2.28	2.39	2.48	2.56	2.62	2.67	2.71	2.73	2.75	2.76	2.75	2.75	2.73	2.71	2.69	2.66	2.63	2.60
30.0	2.04	2.15	2.25	2.33	2.40	2.45	2.49	2.52	2.54	2.55	2.56	2.56	2.55	2.54	2.52	2.50	2.48	2.45	2.42	2.39	2.36
40.0	2.14	2.21	2.26	2.31	2.34	2.37	2.38	2.39	2.40	2.40	2.39	2.38	2.36	2.35	2.33	2.30	2.28	2.25	2.22	2.20	2.17
50.0	2.15	2.19	2.22	2.24	2.25	2.26	2.27	2.26	2.26	2.25	2.23	2.22	2.20	2.18	2.16	2.13	2.11	2.08	2.06	2.03	2.00
60.0	2.11	2.13	2.14	2.15	2.15	2.15	2.15	2.14	2.12	2.11	2.09	2.07	2.05	2.03	2.01	1.99	1.96	1.94	1.91	1.89	1.86
70.0	2.05	2.05	2.06	2.05	2.05	2.04	2.03	2.01	2.00	1.98	1.96	1.94	1.92	1.90	1.88	1.66	1.83	1.81	1.79	1.76	1.74
80.0	1.97	1.97	1.96	1.96	1.94	1.93	1.92	1.90	1.88	1.87	1.85	1.83	1.81	1.79	1.76	1.74	1.72	1.70	1.68	1.66	1.64
90.0	1.89	1.88	1.87	1.86	1.84	1.83	1.81	1.80	1.78	1.76	1.74	1.72	1.70	1.68	1.66	1.64	1.62	1.60	1.58	1.56	1.54
100.0	1.80	1.79	1.78	1.77	1.75	1.73	1.72	1.70	1.68	1.66	1.64	1.63	1.61	1.59	1.57	1.55	1.53	1.51	1.50	1.48	1.46
110.0	1.72	1.71	1.69	1.68	1.66	1.65	1.63	1.61	1.59	1.58	1.56	1.54	1.52	1.50	1.49	1.47	1.45	1.44	1.42	1.40	1.39
120.0	1.64	1.63	1.61	1.60	1.58	1.56	1.55	1.53	1.51	1.50	1.48	1.46	1.45	1.43	1.41	1.40	1.38	1.37	1.35	1.34	1.32
130.0	1.57	1.55	1.54	1.52	1.50	1.49	1.47	1.46	1.44	1.42	1.41	1.39	1.38	1.36	1.35	1.33	1.32	1.30	1.29	1.28	1.26
140.0	1.49	1.48	1.46	1.45	1.43	1.42	1.40	1.39	1.37	1.36	1.34	1.33	1.31	1.30	1.29	1.27	1.26	1.25	1.24	1.22	1.21
150.0	1.43	1.41	1.40	1.38	1.37	1.35	1.34	1.33	1.31	1.30	1.28	1.27	1.26	1.25	1.23	1.22	1.21	1.20	1.19	1.17	1.16
160.0	1.36	1.35	1.34	1.32	1.31	1.30	1.28	1.27	1.26	1.24	1.23	1.22	1.21	1.19	1.18	1.17	1.16	1.15	1.14	1.13	1.12
170.0	1.31	1.29	1.28	1.27	1.25	1.24	1.23	1.22	1.21	1.19	1.18	1.17	1.16	1.15	1.14	1.13	1.12	1.11	1.10	1.09	1.08
180.0	1.25	1.24	1.23	1.22	1.20	1.19	1.18	1.17	1.16	1.15	1.14	1.13	1.12	1.11	1.10	1.09	1.08	1.07	1.06	1.05	1.04
190.0	1.20	1.19	1.18	1.17	1.16	1.15	1.14	1.13	1.12	1.11	1.10	1.09	1.08	1.07	1.06	1.05	1.04	1.03	1.03	1.02	1.01
200.0	1.16	1.15	1.14	1.13	1.12	1.11	1.10	1.09	1.08	1.07	1.06	1.05	1.04	1.03	1.03	1.02	1.01	1.00	0.99	0.99	0.98

CAUTION --- POSSIBLE 2% PU POLYMER FORMATION IN 1.00 HOURS FOR PLUTONIUM CONCENTRATIONS IN EXCESS OF 18.18 G/L.

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 0.30
TBP - VOLUME FRACTION - 0.100
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	0.25	0.30	0.36	0.41	0.47	0.52	0.58	0.63	0.67	0.71	0.75	0.78	0.81	0.83	0.85	0.86	0.88	0.88	0.89	0.89	0.89
10.0	0.32	0.36	0.40	0.45	0.49	0.52	0.56	0.59	0.61	0.64	0.66	0.68	0.69	0.70	0.71	0.72	0.73	0.73	0.73	0.73	0.73
20.0	0.36	0.39	0.42	0.45	0.48	0.50	0.52	0.54	0.56	0.57	0.59	0.60	0.61	0.61	0.62	0.62	0.62	0.63	0.63	0.63	0.62
30.0	0.37	0.40	0.42	0.44	0.46	0.47	0.49	0.50	0.51	0.52	0.53	0.53	0.54	0.54	0.55	0.55	0.55	0.55	0.55	0.55	0.55
40.0	0.38	0.39	0.41	0.42	0.43	0.44	0.45	0.46	0.47	0.47	0.48	0.48	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
50.0	0.37	0.38	0.39	0.40	0.41	0.41	0.42	0.43	0.43	0.43	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
60.0	0.36	0.36	0.37	0.38	0.38	0.39	0.39	0.40	0.40	0.40	0.40	0.40	0.41	0.41	0.41	0.41	0.41	0.40	0.40	0.40	0.40
70.0	0.34	0.35	0.35	0.36	0.36	0.36	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
80.0	0.33	0.33	0.33	0.34	0.34	0.34	0.34	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.34	0.34	0.34	0.34	0.34
90.0	0.31	0.31	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.31
100.0	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.29
110.0	0.28	0.28	0.28	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
120.0	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.26	0.26	0.26	0.26	0.26
130.0	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.24
140.0	0.24	0.25	0.25	0.25	0.25	0.25	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.23	0.23	0.23
150.0	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.22	0.22
160.0	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21
170.0	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.20
180.0	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.19
190.0	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18
200.0	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.17

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 0.30
TBP - VOLUME FRACTION - 0.100
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	0.05	0.07	0.08	0.09	0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.17	0.18	0.19	0.19	0.20	0.20	0.20	0.20	0.21	0.21
10.0	0.07	0.08	0.09	0.10	0.11	0.12	0.12	0.13	0.14	0.14	0.15	0.15	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17
20.0	0.08	0.09	0.09	0.10	0.11	0.11	0.12	0.12	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15
30.0	0.08	0.09	0.09	0.10	0.10	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
40.0	0.08	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12
50.0	0.08	0.08	0.09	0.09	0.09	0.09	0.0	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11
60.0	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
70.0	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
80.0	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09
90.0	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
100.0	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
110.0	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
120.0	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
130.0	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
140.0	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07
150.0	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
160.0	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
170.0	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
180.0	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
190.0	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
200.0	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 0.30
TBP - VOLUME FRACTION - 0.100
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	2.18	2.41	2.62	2.81	2.98	3.13	3.25	3.35	3.43	3.49	3.53	3.56	3.57	3.56	3.54	3.52	3.48	3.44	3.39	3.33	3.28
10.0	2.43	2.58	2.71	2.83	2.92	2.99	3.05	3.10	3.13	3.14	3.15	3.15	3.13	3.11	3.09	3.05	3.02	2.98	2.93	2.89	2.84
20.0	2.51	2.60	2.68	2.74	2.78	2.82	2.84	2.85	2.86	2.85	2.84	2.83	2.80	2.78	2.75	2.72	2.68	2.64	2.60	2.56	2.52
30.0	2.49	2.54	2.58	2.60	2.62	2.63	2.63	2.63	2.62	2.61	2.59	2.57	2.54	2.51	2.48	2.45	2.42	2.39	2.35	2.32	2.28
40.0	2.41	2.43	2.45	2.46	2.46	2.45	2.45	2.43	2.42	2.40	2.38	2.35	2.33	2.30	2.27	2.24	2.21	2.18	2.15	2.12	2.08
50.0	2.31	2.31	2.31	2.31	2.30	2.29	2.28	2.26	2.24	2.22	2.20	2.17	2.14	2.12	2.09	2.06	2.04	2.01	1.98	1.95	1.92
60.0	2.19	2.19	2.18	2.17	2.16	2.14	2.12	2.10	2.08	2.06	2.04	2.01	1.99	1.96	1.94	1.91	1.89	1.86	1.84	1.81	1.79
70.0	2.08	2.07	2.06	2.04	2.03	2.01	1.99	1.97	1.95	1.92	1.90	1.88	1.86	1.83	1.81	1.79	1.76	1.74	1.72	1.69	1.67
80.0	1.97	1.95	1.94	1.92	1.90	1.89	1.87	1.85	1.82	1.80	1.78	1.76	1.74	1.72	1.70	1.67	1.65	1.63	1.61	1.59	1.57
90.0	1.86	1.85	1.83	1.81	1.79	1.78	1.76	1.74	1.72	1.70	1.68	1.66	1.64	1.62	1.60	1.58	1.56	1.54	1.52	1.50	1.48
100.0	1.76	1.75	1.73	1.71	1.69	1.68	1.66	1.64	1.62	1.60	1.58	1.56	1.54	1.53	1.51	1.49	1.47	1.46	1.44	1.42	1.41
110.0	1.67	1.66	1.64	1.62	1.60	1.59	1.57	1.55	1.53	1.52	1.50	1.48	1.46	1.45	1.43	1.41	1.40	1.38	1.37	1.35	1.34
120.0	1.59	1.57	1.56	1.54	1.52	1.50	1.49	1.47	1.46	1.44	1.42	1.41	1.39	1.38	1.36	1.35	1.33	1.32	1.30	1.29	1.28
130.0	1.51	1.49	1.48	1.46	1.45	1.43	1.42	1.40	1.39	1.37	1.36	1.34	1.33	1.31	1.30	1.29	1.27	1.26	1.25	1.23	1.22
140.0	1.44	1.42	1.41	1.39	1.38	1.36	1.35	1.34	1.32	1.31	1.29	1.28	1.27	1.26	1.24	1.23	1.22	1.21	1.20	1.18	1.17
150.0	1.37	1.36	1.35	1.33	1.32	1.30	1.29	1.28	1.26	1.25	1.24	1.23	1.22	1.20	1.19	1.18	1.17	1.16	1.15	1.14	1.13
160.0	1.31	1.30	1.29	1.27	1.26	1.25	1.24	1.22	1.21	1.20	1.19	1.18	1.17	1.16	1.15	1.14	1.13	1.12	1.11	1.10	1.09
170.0	1.26	1.25	1.23	1.22	1.21	1.20	1.19	1.18	1.17	1.15	1.14	1.13	1.12	1.11	1.10	1.10	1.09	1.08	1.07	1.06	1.05
180.0	1.21	1.20	1.19	1.17	1.16	1.15	1.14	1.13	1.12	1.11	1.10	1.09	1.08	1.08	1.07	1.06	1.05	1.04	1.03	1.03	1.02
190.0	1.16	1.15	1.14	1.13	1.12	1.11	1.10	1.09	1.08	1.07	1.07	1.06	1.05	1.04	1.03	1.02	1.02	1.01	1.00	0.99	0.99
200.0	1.12	1.11	1.10	1.09	1.08	1.07	1.06	1.05	1.05	1.04	1.03	1.02	1.01	1.01	1.00	0.99	0.98	0.98	0.97	0.96	0.96

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 0.50
TBP - VOLUME FRACTION - 0.100
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	0.55	0.61	0.67	0.73	0.78	0.83	0.87	0.91	0.94	0.96	0.98	0.99	1.00	1.01	1.01	1.01	1.01	1.00	0.99	0.98	0.97
10.0	0.55	0.59	0.62	0.66	0.69	0.71	0.74	0.75	0.77	0.78	0.79	0.80	0.81	0.81	0.81	0.81	0.81	0.80	0.80	0.79	0.78
20.0	0.53	0.55	0.57	0.59	0.61	0.63	0.64	0.65	0.66	0.67	0.67	0.68	0.68	0.68	0.68	0.68	0.68	0.67	0.67	0.66	0.66
30.0	0.50	0.51	0.53	0.54	0.55	0.56	0.57	0.57	0.58	0.58	0.59	0.59	0.59	0.59	0.59	0.59	0.58	0.58	0.58	0.57	0.57
40.0	0.46	0.47	0.48	0.49	0.50	0.50	0.51	0.51	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.51	0.51	0.51	0.50	0.50
50.0	0.43	0.44	0.45	0.45	0.46	0.46	0.46	0.46	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.46	0.46	0.46	0.46	0.45	0.45
60.0	0.40	0.41	0.41	0.42	0.42	0.42	0.42	0.42	0.43	0.43	0.43	0.43	0.42	0.42	0.42	0.42	0.42	0.42	0.41	0.41	0.41
70.0	0.38	0.38	0.38	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.38	0.38	0.38	0.38	0.37	0.37
80.0	0.35	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.35	0.35	0.35	0.35	0.34	0.34
90.0	0.33	0.33	0.33	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.32	0.32	0.32	0.32
100.0	0.31	0.31	0.31	0.31	0.32	0.32	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.30	0.30	0.30	0.30	0.30
110.0	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.28	0.28	0.28	0.28	0.28
120.0	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.26	0.26	0.26	0.26
130.0	0.27	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.25	0.25	0.25	0.25	0.25	0.24
140.0	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.23	0.23	0.23
150.0	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.22
160.0	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21
170.0	0.22	0.22	0.22	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.20
180.0	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.19
190.0	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18
200.0	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.17	0.17

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 0.50
TBP - VOLUME FRACTION - 0.100
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	0.12	0.13	0.15	0.16	0.17	0.18	0.19	0.20	0.21	0.22	0.22	0.23	0.23	0.23	0.23	0.23	0.24	0.23	0.23	0.23	0.23
10.0	0.12	0.13	0.14	0.15	0.15	0.16	0.17	0.17	0.17	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
20.0	0.12	0.12	0.13	0.13	0.14	0.14	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
30.0	0.11	0.11	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
40.0	0.10	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13
50.0	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
60.0	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11
70.0	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
80.0	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
90.0	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09
100.0	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
110.0	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
120.0	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
130.0	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
140.0	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
150.0	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07
160.0	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
170.0	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
180.0	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
190.0	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
200.0	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 0.50
TBP - VOLUME FRACTION - 0.100
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	3.22	3.38	3.52	3.63	3.71	3.77	3.82	3.84	3.84	3.83	3.81	3.77	3.73	3.67	3.61	3.55	3.48	3.41	3.34	3.27	3.20
10.0	3.10	3.17	3.23	3.28	3.30	3.32	3.32	3.31	3.30	3.27	3.24	3.20	3.16	3.12	3.07	3.02	2.97	2.91	2.86	2.80	2.75
20.0	2.91	2.94	2.96	2.97	2.98	2.97	2.96	2.94	2.91	2.88	2.85	2.81	2.78	2.74	2.69	2.65	2.61	2.56	2.52	2.47	2.43
30.0	2.71	2.72	2.72	2.72	2.70	2.69	2.67	2.64	2.62	2.59	2.56	2.52	2.49	2.45	2.41	2.38	2.34	2.30	2.26	2.23	2.19
40.0	2.52	2.52	2.51	2.50	2.48	2.46	2.43	2.41	2.38	2.35	2.32	2.29	2.26	2.23	2.19	2.16	2.13	2.10	2.06	2.03	2.00
50.0	2.35	2.34	2.32	2.31	2.28	2.26	2.24	2.21	2.19	2.16	2.13	2.10	2.07	2.04	2.02	1.99	1.96	1.93	1.90	1.87	1.85
60.0	2.20	2.18	2.16	2.14	2.12	2.09	2.07	2.05	2.02	2.00	1.97	1.94	1.92	1.89	1.87	1.84	1.81	1.79	1.77	1.74	1.72
70.0	2.05	2.04	2.02	1.99	1.97	1.95	1.93	1.90	1.88	1.86	1.83	1.81	1.79	1.76	1.74	1.72	1.69	1.67	1.65	1.63	1.61
80.0	1.93	1.91	1.89	1.87	1.85	1.82	1.80	1.78	1.76	1.74	1.72	1.69	1.67	1.65	1.63	1.61	1.59	1.57	1.55	1.53	1.51
90.0	1.81	1.79	1.77	1.75	1.73	1.71	1.69	1.67	1.65	1.63	1.61	1.59	1.57	1.56	1.54	1.52	1.50	1.48	1.46	1.45	1.43
100.0	1.71	1.69	1.67	1.65	1.63	1.61	1.60	1.58	1.56	1.54	1.52	1.51	1.49	1.47	1.45	1.44	1.42	1.40	1.39	1.37	1.36
110.0	1.62	1.60	1.58	1.56	1.55	1.53	1.51	1.49	1.48	1.46	1.44	1.43	1.41	1.40	1.38	1.37	1.35	1.34	1.32	1.31	1.30
120.0	1.53	1.52	1.50	1.48	1.47	1.45	1.43	1.42	1.40	1.39	1.37	1.36	1.34	1.33	1.32	1.30	1.29	1.28	1.26	1.25	1.24
130.0	1.46	1.44	1.42	1.41	1.39	1.38	1.36	1.35	1.34	1.32	1.31	1.30	1.28	1.27	1.26	1.25	1.23	1.22	1.21	1.20	1.19
140.0	1.39	1.37	1.36	1.34	1.33	1.32	1.30	1.29	1.28	1.26	1.25	1.24	1.23	1.22	1.21	1.19	1.18	1.17	1.16	1.15	1.14
150.0	1.32	1.31	1.30	1.28	1.27	1.26	1.25	1.24	1.22	1.21	1.20	1.19	1.18	1.17	1.16	1.15	1.14	1.13	1.12	1.11	1.10
160.0	1.27	1.26	1.24	1.23	1.22	1.21	1.20	1.19	1.18	1.16	1.15	1.14	1.13	1.12	1.12	1.11	1.10	1.09	1.08	1.07	1.06
170.0	1.22	1.20	1.19	1.18	1.17	1.16	1.15	1.14	1.13	1.12	1.11	1.10	1.09	1.08	1.08	1.07	1.06	1.05	1.04	1.03	1.03
180.0	1.17	1.16	1.15	1.14	1.13	1.12	1.11	1.10	1.09	1.08	1.07	1.07	1.06	1.05	1.04	1.03	1.02	1.02	1.01	1.00	0.99
190.0	1.13	1.12	1.11	1.10	1.09	1.08	1.07	1.06	1.05	1.05	1.04	1.03	1.02	1.01	1.01	1.00	0.99	0.99	0.98	0.97	0.96
200.0	1.09	1.08	1.07	1.06	1.05	1.04	1.04	1.03	1.02	1.01	1.01	1.00	0.99	0.98	0.98	0.97	0.96	0.96	0.95	0.94	0.94

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 1.00
TBP - VOLUME FRACTION - 0.100
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	1.69	1.69	1.69	1.67	1.65	1.62	1.59	1.56	1.52	1.49	1.45	1.41	1.37	1.33	1.29	1.26	1.22	1.18	1.15	1.11	1.08
10.0	1.13	1.13	1.13	1.13	1.12	1.11	1.10	1.09	1.07	1.06	1.04	1.02	1.00	0.98	0.96	0.94	0.92	0.90	0.88	0.86	0.84
20.0	0.87	0.88	0.88	0.87	0.87	0.86	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.79	0.77	0.76	0.75	0.73	0.72	0.71	0.69
30.0	0.72	0.72	0.72	0.72	0.72	0.71	0.71	0.70	0.70	0.69	0.68	0.68	0.67	0.66	0.65	0.64	0.63	0.62	0.61	0.60	0.59
40.0	0.62	0.62	0.62	0.62	0.61	0.61	0.61	0.60	0.60	0.59	0.59	0.58	0.57	0.57	0.56	0.55	0.55	0.54	0.53	0.52	0.52
50.0	0.54	0.54	0.54	0.54	0.54	0.54	0.53	0.53	0.52	0.52	0.52	0.51	0.51	0.50	0.49	0.49	0.48	0.48	0.47	0.46	0.46
60.0	0.49	0.49	0.48	0.48	0.48	0.48	0.47	0.47	0.47	0.46	0.46	0.46	0.45	0.45	0.44	0.44	0.43	0.43	0.42	0.42	0.41
70.0	0.44	0.44	0.44	0.44	0.43	0.43	0.43	0.43	0.42	0.42	0.42	0.41	0.41	0.40	0.40	0.40	0.39	0.39	0.38	0.38	0.37
80.0	0.40	0.40	0.40	0.40	0.39	0.39	0.39	0.39	0.39	0.38	0.38	0.38	0.37	0.37	0.37	0.36	0.36	0.35	0.35	0.35	0.34
90.0	0.37	0.37	0.37	0.36	0.36	0.36	0.36	0.36	0.35	0.35	0.35	0.35	0.34	0.34	0.34	0.33	0.33	0.33	0.32	0.32	0.32
100.0	0.34	0.34	0.34	0.34	0.34	0.33	0.33	0.33	0.33	0.33	0.32	0.32	0.32	0.31	0.31	0.31	0.31	0.30	0.30	0.30	0.29
110.0	0.32	0.32	0.32	0.31	0.31	0.31	0.31	0.31	0.30	0.30	0.30	0.30	0.30	0.29	0.29	0.29	0.29	0.28	0.28	0.28	0.27
120.0	0.30	0.30	0.30	0.29	0.29	0.29	0.29	0.29	0.28	0.28	0.28	0.28	0.28	0.27	0.27	0.27	0.27	0.26	0.26	0.26	0.26
130.0	0.28	0.28	0.28	0.28	0.27	0.27	0.27	0.27	0.27	0.27	0.26	0.26	0.26	0.26	0.26	0.25	0.25	0.25	0.25	0.24	0.24
140.0	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.25	0.25	0.25	0.25	0.24	0.24	0.24	0.24	0.24	0.23	0.23	0.23	0.23
150.0	0.25	0.25	0.25	0.25	0.24	0.24	0.24	0.24	0.24	0.24	0.23	0.23	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.22	0.22
160.0	0.24	0.24	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.20
170.0	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.20	0.19
180.0	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.19	0.19
190.0	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.18
200.0	0.20	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.17

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 1.00
TBP - VOLUME FRACTION - 0.100
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	0.39	0.39	0.39	0.39	0.38	0.38	0.37	0.37	0.36	0.36	0.35	0.34	0.33	0.33	0.32	0.31	0.31	0.30	0.29	0.29	0.28
10.0	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.25	0.25	0.24	0.24	0.24	0.23	0.23	0.23	0.22	0.22
20.0	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.19	0.18
30.0	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16
40.0	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.14	0.14	0.14	0.14
50.0	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
60.0	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
70.0	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
80.0	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
90.0	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
100.0	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
110.0	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
120.0	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
130.0	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
140.0	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
150.0	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
160.0	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
170.0	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
180.0	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
190.0	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
200.0	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 1.00
TBP - VOLUME FRACTION - 0.100
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	5.12	5.03	4.92	4.80	4.67	4.54	4.41	4.28	4.15	4.02	3.90	3.78	3.67	3.56	3.45	3.35	3.25	3.16	3.07	2.98	2.90
10.0	3.86	3.80	3.73	3.66	3.59	3.52	3.44	3.36	3.29	3.21	3.14	3.07	2.99	2.92	2.85	2.79	2.72	2.66	2.60	2.54	2.48
20.0	3.21	3.17	3.12	3.06	3.01	2.96	2.90	2.85	2.79	2.74	2.68	2.63	2.58	2.52	2.47	2.42	2.38	2.33	2.28	2.24	2.20
30.0	2.80	2.76	2.71	2.67	2.63	2.58	2.54	2.50	2.45	2.41	2.37	2.33	2.28	2.24	2.20	2.16	2.13	2.09	2.05	2.02	1.98
40.0	2.49	2.46	2.42	2.38	2.35	2.31	2.27	2.24	2.20	2.17	2.13	2.10	2.06	2.03	2.00	1.97	1.94	1.90	1.88	1.85	1.82
50.0	2.26	2.22	2.19	2.16	2.13	2.10	2.07	2.04	2.01	1.98	1.95	1.92	1.89	1.86	1.84	1.81	1.78	1.76	1.73	1.71	1.68
60.0	2.07	2.04	2.01	1.98	1.96	1.93	1.90	1.88	1.85	1.82	1.80	1.77	1.75	1.73	1.70	1.68	1.66	1.64	1.61	1.59	1.57
70.0	1.91	1.88	1.86	1.84	1.81	1.79	1.76	1.74	1.72	1.70	1.68	1.65	1.63	1.61	1.59	1.57	1.55	1.53	1.51	1.50	1.48
80.0	1.78	1.76	1.73	1.71	1.69	1.67	1.65	1.63	1.61	1.59	1.57	1.55	1.53	1.51	1.50	1.48	1.46	1.45	1.43	1.41	1.40
90.0	1.66	1.64	1.63	1.61	1.59	1.57	1.55	1.53	1.51	1.50	1.48	1.46	1.45	1.43	1.42	1.40	1.38	1.37	1.36	1.34	1.33
100.0	1.57	1.55	1.53	1.51	1.50	1.48	1.46	1.45	1.43	1.42	1.40	1.39	1.37	1.36	1.34	1.33	1.32	1.30	1.29	1.28	1.26
110.0	1.48	1.47	1.45	1.43	1.42	1.40	1.39	1.38	1.36	1.35	1.33	1.32	1.31	1.29	1.28	1.27	1.26	1.24	1.23	1.22	1.21
120.0	1.41	1.39	1.38	1.36	1.35	1.34	1.32	1.31	1.30	1.29	1.27	1.26	1.25	1.24	1.23	1.21	1.20	1.19	1.18	1.17	1.16
130.0	1.34	1.33	1.31	1.30	1.29	1.28	1.26	1.25	1.24	1.23	1.22	1.21	1.20	1.19	1.18	1.17	1.16	1.15	1.14	1.13	1.12
140.0	1.28	1.27	1.26	1.24	1.23	1.22	1.21	1.20	1.19	1.18	1.17	1.16	1.15	1.14	1.13	1.12	1.11	1.10	1.09	1.08	1.07
150.0	1.23	1.21	1.20	1.19	1.18	1.17	1.16	1.15	1.14	1.14	1.13	1.12	1.11	1.10	1.09	1.08	1.07	1.06	1.05	1.05	1.04
160.0	1.18	1.17	1.16	1.15	1.14	1.13	1.12	1.11	1.10	1.09	1.09	1.08	1.07	1.06	1.05	1.04	1.04	1.03	1.02	1.01	1.00
170.0	1.13	1.12	1.12	1.11	1.10	1.09	1.08	1.07	1.06	1.06	1.05	1.04	1.03	1.03	1.02	1.01	1.00	0.99	0.99	0.98	0.97
180.0	1.09	1.08	1.08	1.07	1.06	1.05	1.05	1.04	1.03	1.02	1.02	1.01	1.00	0.99	0.99	0.98	0.97	0.96	0.96	0.95	0.94
190.0	1.06	1.05	1.04	1.03	1.03	1.02	1.01	1.01	1.00	0.99	0.98	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91
200.0	1.02	1.02	1.01	1.00	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.95	0.94	0.94	0.93	0.92	0.92	0.91	0.90	0.90	0.89

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 3.00
TBP - VOLUME FRACTION - 0.100
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	9.94	6.24	4.66	3.74	3.13	2.70	2.37	2.11	1.90	1.73	1.58	1.45	1.34	1.25	1.16	1.09	1.02	0.96	0.91	0.86	0.81
10.0	2.38	2.14	1.95	1.79	1.65	1.53	1.42	1.33	1.24	1.17	1.10	1.04	0.98	0.93	0.88	0.84	0.80	0.76	0.72	0.69	0.66
20.0	1.43	1.35	1.27	1.20	1.14	1.08	1.03	0.98	0.93	0.89	0.85	0.81	0.77	0.74	0.71	0.68	0.65	0.63	0.60	0.58	0.56
30.0	1.04	0.99	0.95	0.91	0.87	0.84	0.81	0.78	0.75	0.72	0.69	0.67	0.64	0.62	0.60	0.58	0.56	0.54	0.52	0.50	0.48
40.0	0.82	0.79	0.76	0.74	0.71	0.69	0.67	0.64	0.62	0.60	0.58	0.57	0.55	0.53	0.51	0.50	0.48	0.47	0.45	0.44	0.43
50.0	0.68	0.66	0.64	0.62	0.60	0.59	0.57	0.55	0.54	0.52	0.51	0.49	0.48	0.47	0.45	0.44	0.43	0.42	0.40	0.39	0.38
60.0	0.58	0.56	0.55	0.54	0.52	0.51	0.50	0.48	0.47	0.46	0.45	0.44	0.43	0.41	0.40	0.39	0.38	0.37	0.36	0.35	0.35
70.0	0.51	0.49	0.48	0.47	0.46	0.45	0.44	0.43	0.42	0.41	0.40	0.39	0.38	0.37	0.36	0.36	0.35	0.34	0.33	0.32	0.32
80.0	0.45	0.44	0.43	0.42	0.41	0.41	0.40	0.39	0.38	0.37	0.36	0.36	0.35	0.34	0.33	0.33	0.32	0.31	0.30	0.30	0.29
90.0	0.41	0.40	0.39	0.38	0.38	0.37	0.36	0.35	0.35	0.34	0.33	0.33	0.32	0.31	0.31	0.30	0.29	0.29	0.28	0.27	0.27
100.0	0.37	0.36	0.36	0.35	0.34	0.34	0.33	0.32	0.32	0.31	0.31	0.30	0.29	0.29	0.28	0.28	0.27	0.27	0.26	0.26	0.25
110.0	0.34	0.33	0.33	0.32	0.32	0.31	0.31	0.30	0.29	0.29	0.28	0.28	0.27	0.27	0.26	0.26	0.25	0.25	0.24	0.24	0.23
120.0	0.31	0.31	0.30	0.30	0.29	0.29	0.28	0.28	0.27	0.27	0.26	0.26	0.26	0.25	0.25	0.24	0.24	0.23	0.23	0.22	0.22
130.0	0.29	0.29	0.28	0.28	0.27	0.27	0.26	0.26	0.26	0.25	0.25	0.24	0.24	0.24	0.23	0.23	0.22	0.22	0.22	0.21	0.21
140.0	0.27	0.27	0.26	0.26	0.26	0.25	0.25	0.24	0.24	0.24	0.23	0.23	0.23	0.22	0.22	0.21	0.21	0.21	0.20	0.20	0.20
150.0	0.25	0.25	0.25	0.24	0.24	0.24	0.23	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.21	0.20	0.20	0.20	0.19	0.19	0.19
160.0	0.24	0.24	0.23	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.18	0.18	0.18
170.0	0.23	0.22	0.22	0.22	0.22	0.21	0.21	0.21	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.17	0.17	0.17
180.0	0.22	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.16	0.16
190.0	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.15
200.0	0.20	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.15	0.15	0.15	0.15

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 3.00
TBP - VOLUME FRACTION - 0.100
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	3.25	2.07	1.56	1.27	1.07	0.94	0.83	0.75	0.68	0.63	0.58	0.54	0.51	0.48	0.45	0.43	0.41	0.39	0.37	0.35	0.34
10.0	0.79	0.72	0.67	0.62	0.58	0.54	0.51	0.48	0.46	0.43	0.41	0.40	0.38	0.36	0.35	0.34	0.32	0.31	0.30	0.29	0.28
20.0	0.49	0.46	0.44	0.42	0.41	0.39	0.38	0.36	0.35	0.34	0.33	0.32	0.31	0.30	0.29	0.28	0.27	0.27	0.26	0.25	0.25
30.0	0.36	0.35	0.34	0.33	0.32	0.31	0.30	0.29	0.29	0.28	0.27	0.27	0.26	0.25	0.25	0.24	0.24	0.23	0.23	0.22	0.22
40.0	0.29	0.29	0.28	0.27	0.27	0.26	0.26	0.25	0.25	0.24	0.24	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.20	0.20	0.20
50.0	0.25	0.24	0.24	0.23	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.18	0.18
60.0	0.22	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.17
70.0	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.16
80.0	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.15	0.15	0.15	0.15	0.15
90.0	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.14	0.14	0.14	0.14
100.0	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
110.0	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
120.0	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
130.0	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
140.0	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
150.0	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.11
160.0	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
170.0	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
180.0	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
190.0	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
200.0	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 3.00
TBP - VOLUME FRACTION - 0.100
UNEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	7.71	5.94	5.05	4.47	4.05	3.73	3.47	3.25	3.06	2.90	2.76	2.64	2.53	2.42	2.33	2.25	2.17	2.09	2.03	1.96	1.90
10.0	3.54	3.34	3.16	3.01	2.87	2.75	2.64	2.54	2.44	2.36	2.28	2.20	2.14	2.07	2.01	1.95	1.90	1.85	1.80	1.75	1.71
20.0	2.69	2.60	2.51	2.43	2.35	2.28	2.22	2.15	2.09	2.04	1.98	1.93	1.88	1.84	1.79	1.75	1.71	1.67	1.63	1.59	1.56
30.0	2.26	2.20	2.15	2.09	2.04	1.99	1.95	1.90	1.86	1.82	1.78	1.74	1.70	1.66	1.63	1.59	1.56	1.53	1.50	1.47	1.44
40.0	1.99	1.95	1.90	1.87	1.83	1.79	1.75	1.72	1.69	1.65	1.62	1.59	1.56	1.53	1.50	1.47	1.45	1.42	1.39	1.37	1.34
50.0	1.79	1.76	1.73	1.70	1.67	1.64	1.61	1.58	1.55	1.53	1.50	1.47	1.45	1.42	1.40	1.38	1.35	1.33	1.31	1.29	1.26
60.0	1.64	1.62	1.59	1.57	1.54	1.52	1.49	1.47	1.45	1.42	1.40	1.38	1.36	1.34	1.31	1.29	1.27	1.25	1.23	1.22	1.20
70.0	1.52	1.50	1.48	1.46	1.44	1.42	1.40	1.38	1.36	1.34	1.32	1.30	1.28	1.26	1.24	1.22	1.21	1.19	1.17	1.15	1.14
80.0	1.43	1.41	1.39	1.37	1.35	1.33	1.32	1.30	1.28	1.26	1.25	1.23	1.21	1.20	1.18	1.16	1.15	1.13	1.12	1.10	1.08
90.0	1.34	1.33	1.31	1.30	1.28	1.26	1.25	1.23	1.22	1.20	1.18	1.17	1.15	1.14	1.12	1.11	1.09	1.08	1.07	1.05	1.04
100.0	1.27	1.26	1.24	1.23	1.22	1.20	1.19	1.17	1.16	1.14	1.13	1.12	1.10	1.09	1.08	1.06	1.05	1.04	1.02	1.01	1.00
110.0	1.21	1.20	1.19	1.17	1.16	1.15	1.13	1.12	1.11	1.09	1.08	1.07	1.06	1.04	1.03	1.02	1.01	0.99	0.98	0.97	0.96
120.0	1.16	1.15	1.13	1.12	1.11	1.10	1.09	1.07	1.06	1.05	1.04	1.03	1.02	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.92
130.0	1.11	1.10	1.09	1.08	1.07	1.05	1.04	1.03	1.02	1.01	1.00	0.99	0.98	0.97	0.96	0.95	0.93	0.92	0.91	0.90	0.89
140.0	1.07	1.06	1.05	1.04	1.03	1.02	1.01	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86
150.0	1.03	1.02	1.01	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.87	0.86	0.85	0.84
160.0	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.87	0.86	0.85	0.84	0.83	0.82	0.81
170.0	0.96	0.95	0.94	0.93	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.81	0.80	0.79
180.0	0.93	0.92	0.91	0.91	0.90	0.89	0.88	0.87	0.86	0.86	0.85	0.84	0.83	0.82	0.82	0.81	0.80	0.79	0.78	0.78	0.77
190.0	0.90	0.89	0.89	0.88	0.87	0.86	0.86	0.85	0.84	0.83	0.82	0.82	0.81	0.80	0.79	0.79	0.78	0.77	0.76	0.76	0.75
200.0	0.88	0.87	0.86	0.85	0.85	0.84	0.83	0.82	0.82	0.81	0.80	0.80	0.79	0.78	0.77	0.77	0.76	0.75	0.74	0.74	0.73

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 5.00
TBP - VOLUME FRACTION - 0.100
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	11.07	5.02	3.38	2.57	2.07	1.74	1.49	1.31	1.16	1.04	0.94	0.86	0.79	0.73	0.67	0.63	0.59	0.55	0.51	0.48	0.46
10.0	2.36	1.96	1.67	1.46	1.29	1.15	1.04	0.95	0.87	0.80	0.74	0.69	0.64	0.60	0.56	0.53	0.50	0.47	0.45	0.42	0.40
20.0	1.41	1.26	1.14	1.03	0.95	0.87	0.81	0.75	0.70	0.65	0.61	0.58	0.54	0.51	0.48	0.46	0.43	0.41	0.39	0.37	0.36
30.0	1.01	0.93	0.87	0.80	0.75	0.70	0.66	0.62	0.58	0.55	0.52	0.49	0.47	0.45	0.42	0.40	0.39	0.37	0.35	0.34	0.32
40.0	0.80	0.75	0.70	0.66	0.62	0.59	0.56	0.53	0.50	0.48	0.46	0.43	0.41	0.40	0.38	0.36	0.35	0.33	0.32	0.30	0.29
50.0	0.66	0.62	0.59	0.56	0.53	0.51	0.48	0.46	0.44	0.42	0.40	0.39	0.37	0.35	0.34	0.33	0.31	0.30	0.29	0.28	0.27
60.0	0.56	0.54	0.51	0.49	0.47	0.45	0.43	0.41	0.39	0.38	0.36	0.35	0.34	0.32	0.31	0.30	0.29	0.28	0.27	0.26	0.25
70.0	0.49	0.47	0.45	0.43	0.42	0.40	0.38	0.37	0.36	0.34	0.33	0.32	0.31	0.30	0.28	0.27	0.26	0.26	0.25	0.24	0.23
80.0	0.44	0.42	0.40	0.39	0.38	0.36	0.35	0.34	0.32	0.31	0.30	0.29	0.28	0.27	0.26	0.25	0.25	0.24	0.23	0.22	0.22
90.0	0.39	0.38	0.37	0.35	0.34	0.33	0.32	0.31	0.30	0.29	0.28	0.27	0.26	0.25	0.24	0.24	0.23	0.22	0.22	0.21	0.20
100.0	0.36	0.35	0.33	0.32	0.31	0.30	0.29	0.28	0.28	0.27	0.26	0.25	0.24	0.24	0.23	0.22	0.21	0.21	0.20	0.20	0.19
110.0	0.33	0.32	0.31	0.30	0.29	0.28	0.27	0.26	0.26	0.25	0.24	0.23	0.23	0.22	0.21	0.21	0.20	0.20	0.19	0.18	0.18
120.0	0.30	0.29	0.29	0.28	0.27	0.26	0.25	0.25	0.24	0.23	0.23	0.22	0.21	0.21	0.20	0.20	0.19	0.19	0.18	0.17	0.17
130.0	0.28	0.27	0.27	0.26	0.25	0.25	0.24	0.23	0.23	0.22	0.21	0.21	0.20	0.20	0.19	0.19	0.18	0.18	0.17	0.17	0.16
140.0	0.26	0.26	0.25	0.24	0.24	0.23	0.22	0.22	0.21	0.21	0.20	0.20	0.19	0.19	0.18	0.18	0.17	0.17	0.16	0.16	0.15
150.0	0.25	0.24	0.23	0.23	0.22	0.22	0.21	0.21	0.20	0.20	0.19	0.19	0.18	0.18	0.17	0.17	0.16	0.16	0.15	0.15	0.15
160.0	0.23	0.23	0.22	0.22	0.21	0.21	0.20	0.20	0.19	0.19	0.18	0.18	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.14	0.14
170.0	0.22	0.21	0.21	0.20	0.20	0.20	0.19	0.19	0.18	0.18	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.14	0.14	0.14	0.13
180.0	0.21	0.20	0.20	0.19	0.19	0.19	0.18	0.18	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.15	0.14	0.14	0.14	0.13	0.13
190.0	0.20	0.19	0.19	0.19	0.18	0.18	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.15	0.14	0.14	0.14	0.13	0.13	0.13	0.12
200.0	0.19	0.19	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.15	0.15	0.15	0.14	0.14	0.14	0.13	0.13	0.13	0.12	0.12	0.12

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 5.00
TBP - VOLUME FRACTION - 0.100
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	6.28	2.89	1.97	1.52	1.25	1.06	0.92	0.82	0.74	0.67	0.62	0.57	0.53	0.50	0.47	0.44	0.42	0.40	0.38	0.36	0.35
10.0	1.37	1.16	1.00	0.89	0.80	0.72	0.66	0.61	0.57	0.53	0.50	0.47	0.45	0.42	0.40	0.38	0.37	0.35	0.34	0.32	0.31
20.0	0.84	0.76	0.70	0.64	0.60	0.56	0.53	0.49	0.47	0.44	0.42	0.40	0.39	0.37	0.35	0.34	0.33	0.32	0.31	0.30	0.29
30.0	0.62	0.58	0.55	0.51	0.49	0.46	0.44	0.42	0.40	0.39	0.37	0.36	0.34	0.33	0.32	0.31	0.30	0.29	0.28	0.27	0.26
40.0	0.50	0.48	0.45	0.43	0.42	0.40	0.38	0.37	0.35	0.34	0.33	0.32	0.31	0.30	0.29	0.28	0.28	0.27	0.26	0.25	0.25
50.0	0.42	0.41	0.39	0.38	0.36	0.35	0.34	0.33	0.32	0.31	0.30	0.29	0.28	0.28	0.27	0.26	0.26	0.25	0.24	0.24	0.23
60.0	0.37	0.36	0.35	0.34	0.33	0.32	0.31	0.30	0.29	0.29	0.28	0.27	0.26	0.26	0.25	0.25	0.24	0.24	0.23	0.23	0.22
70.0	0.33	0.32	0.32	0.31	0.30	0.29	0.28	0.28	0.27	0.27	0.26	0.25	0.25	0.24	0.24	0.23	0.23	0.22	0.22	0.21	0.21
80.0	0.30	0.30	0.29	0.28	0.28	0.27	0.26	0.26	0.25	0.25	0.24	0.24	0.23	0.23	0.23	0.22	0.22	0.21	0.21	0.21	0.20
90.0	0.28	0.27	0.27	0.26	0.26	0.25	0.25	0.24	0.24	0.23	0.23	0.23	0.22	0.22	0.21	0.21	0.21	0.20	0.20	0.20	0.19
100.0	0.26	0.26	0.25	0.25	0.24	0.24	0.24	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.21	0.20	0.20	0.20	0.19	0.19	0.19
110.0	0.25	0.24	0.24	0.23	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.18	0.18
120.0	0.23	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18
130.0	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.17	0.17
140.0	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.17
150.0	0.21	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.16
160.0	0.20	0.20	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16
170.0	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16
180.0	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.16	0.16
190.0	0.18	0.18	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.15
200.0	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.15	0.15	0.15

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 5.00
TBP - VOLUME FRACTION - 0.100
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	6.59	4.39	3.58	3.11	2.78	2.54	2.35	2.19	2.06	1.95	1.85	1.76	1.68	1.61	1.55	1.49	1.44	1.39	1.34	1.30	1.26
10.0	2.99	2.71	2.50	2.33	2.18	2.06	1.95	1.86	1.78	1.70	1.63	1.57	1.51	1.46	1.41	1.36	1.32	1.28	1.24	1.21	1.18
20.0	2.29	2.16	2.05	1.95	1.86	1.78	1.71	1.64	1.58	1.53	1.48	1.43	1.38	1.34	1.30	1.26	1.23	1.20	1.16	1.13	1.11
30.0	1.93	1.85	1.78	1.71	1.65	1.59	1.54	1.49	1.44	1.40	1.36	1.32	1.28	1.25	1.21	1.18	1.15	1.13	1.10	1.07	1.05
40.0	1.71	1.65	1.59	1.54	1.50	1.45	1.41	1.37	1.33	1.30	1.26	1.23	1.20	1.17	1.14	1.12	1.09	1.06	1.04	1.02	1.00
50.0	1.54	1.50	1.46	1.42	1.38	1.34	1.31	1.27	1.24	1.21	1.18	1.16	1.13	1.10	1.08	1.06	1.03	1.01	0.99	0.97	0.95
60.0	1.42	1.38	1.35	1.32	1.28	1.25	1.22	1.20	1.17	1.14	1.12	1.09	1.07	1.05	1.03	1.01	0.99	0.97	0.95	0.93	0.91
70.0	1.32	1.29	1.26	1.23	1.21	1.18	1.16	1.13	1.11	1.08	1.06	1.04	1.02	1.00	0.98	0.96	0.94	0.93	0.91	0.89	0.88
80.0	1.24	1.21	1.19	1.16	1.14	1.12	1.10	1.07	1.05	1.03	1.01	0.99	0.98	0.96	0.94	0.92	0.91	0.89	0.87	0.86	0.84
90.0	1.17	1.15	1.13	1.11	1.08	1.06	1.04	1.03	1.01	0.99	0.97	0.95	0.94	0.92	0.90	0.89	0.87	0.86	0.84	0.83	0.81
100.0	1.11	1.09	1.07	1.05	1.04	1.02	1.00	0.98	0.96	0.95	0.93	0.92	0.90	0.88	0.87	0.86	0.84	0.83	0.81	0.80	0.79
110.0	1.06	1.04	1.03	1.01	0.99	0.97	0.96	0.94	0.93	0.91	0.90	0.88	0.87	0.85	0.84	0.83	0.81	0.80	0.79	0.78	0.76
120.0	1.02	1.00	0.98	0.97	0.95	0.94	0.92	0.91	0.89	0.88	0.87	0.85	0.84	0.83	0.81	0.80	0.79	0.78	0.76	0.75	0.74
130.0	0.98	0.96	0.95	0.93	0.92	0.90	0.89	0.88	0.86	0.85	0.84	0.82	0.81	0.80	0.79	0.78	0.76	0.75	0.74	0.73	0.72
140.0	0.94	0.93	0.91	0.90	0.89	0.87	0.86	0.85	0.84	0.82	0.81	0.80	0.79	0.78	0.76	0.75	0.74	0.73	0.72	0.71	0.70
150.0	0.91	0.90	0.88	0.87	0.86	0.85	0.83	0.82	0.81	0.80	0.79	0.78	0.76	0.75	0.74	0.73	0.72	0.71	0.70	0.69	0.68
160.0	0.88	0.87	0.85	0.84	0.83	0.82	0.81	0.80	0.79	0.78	0.76	0.75	0.74	0.73	0.72	0.71	0.70	0.69	0.68	0.67	0.67
170.0	0.85	0.84	0.83	0.82	0.81	0.80	0.79	0.77	0.76	0.75	0.74	0.73	0.72	0.71	0.70	0.70	0.69	0.68	0.67	0.66	0.65
180.0	0.83	0.82	0.81	0.79	0.78	0.77	0.76	0.75	0.74	0.73	0.72	0.72	0.71	0.70	0.69	0.68	0.67	0.66	0.65	0.64	0.63
190.0	0.80	0.79	0.78	0.77	0.76	0.75	0.74	0.73	0.73	0.72	0.71	0.70	0.69	0.68	0.67	0.66	0.65	0.65	0.64	0.63	0.62
200.0	0.78	0.77	0.76	0.75	0.74	0.74	0.73	0.72	0.71	0.70	0.69	0.68	0.67	0.66	0.66	0.65	0.64	0.63	0.62	0.61	0.61

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 0.10
TBP - VOLUME FRACTION - 0.100
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	0.03	0.05	0.08	0.11	0.14	0.17	0.20	0.24	0.27	0.30	0.33	0.35	0.38	0.40	0.42	0.44	0.45	0.46	0.47	0.48	0.48
10.0	0.07	0.10	0.13	0.16	0.19	0.22	0.25	0.28	0.30	0.32	0.35	0.37	0.38	0.40	0.41	0.42	0.43	0.43	0.44	0.44	0.45
20.0	0.13	0.15	0.18	0.21	0.23	0.26	0.28	0.30	0.32	0.34	0.35	0.36	0.37	0.38	0.39	0.40	0.40	0.41	0.41	0.41	0.41
30.0	0.17	0.20	0.22	0.24	0.26	0.28	0.30	0.31	0.32	0.34	0.35	0.36	0.36	0.37	0.37	0.38	0.38	0.38	0.38	0.38	0.38
40.0	0.21	0.23	0.25	0.26	0.28	0.29	0.30	0.31	0.32	0.33	0.34	0.34	0.35	0.35	0.35	0.36	0.36	0.36	0.36	0.36	0.36
50.0	0.23	0.25	0.26	0.27	0.28	0.29	0.30	0.31	0.32	0.32	0.33	0.33	0.33	0.33	0.34	0.34	0.34	0.34	0.34	0.34	0.33
60.0	0.25	0.26	0.27	0.28	0.28	0.29	0.30	0.30	0.31	0.31	0.31	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.31
70.0	0.25	0.26	0.27	0.27	0.28	0.29	0.29	0.29	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.29
80.0	0.25	0.26	0.27	0.27	0.27	0.28	0.28	0.28	0.28	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.28	0.28	0.28	0.28	0.28
90.0	0.25	0.26	0.26	0.26	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.26	0.26
100.0	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.25	0.25	0.25
110.0	0.24	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.24	0.24	0.24	0.24	0.24	0.24
120.0	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.23	0.23	0.23	0.23	0.23	0.23	0.22
130.0	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.22	0.22	0.22	0.21
140.0	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.21	0.20
150.0	0.22	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.20	0.20
160.0	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.19
170.0	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18
180.0	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.17	0.17
190.0	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.17
200.0	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.16

CAUTION --- POSSIBLE 2% PU POLYMER FORMATION IN 1.00 HOURS FOR PLUTONIUM CONCENTRATIONS IN EXCESS OF 5.28 G/L.

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 0.10
TBP - VOLUME FRACTION - 0.100
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	0.01	0.02	0.03	0.04	0.05	0.06	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.17	0.18	0.18	0.18	0.19
10.0	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.14	0.15	0.16	0.16	0.16	0.17	0.17	0.17	0.17
20.0	0.05	0.06	0.07	0.08	0.09	0.10	0.10	0.11	0.12	0.13	0.13	0.14	0.14	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16
30.0	0.06	0.07	0.08	0.09	0.10	0.11	0.11	0.12	0.12	0.13	0.13	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15
40.0	0.08	0.08	0.09	0.10	0.10	0.11	0.11	0.12	0.12	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
50.0	0.09	0.09	0.10	0.10	0.11	0.11	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.14
60.0	0.09	0.10	0.10	0.10	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
70.0	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
80.0	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
90.0	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
100.0	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
110.0	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
120.0	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
130.0	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
140.0	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
150.0	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
160.0	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
170.0	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
180.0	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
190.0	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
200.0	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

CAUTION --- POSSIBLE 2% PU POLYMER FORMATION IN 1.00 HOURS FOR PLUTONIUM CONCENTRATIONS IN EXCESS OF 5.28 G/L.

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 0.10
TBP - VOLUME FRACTION - 0.100
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	0.85	1.13	1.40	1.65	1.88	2.09	2.28	2.45	2.60	2.72	2.82	2.91	2.97	3.02	3.05	3.06	3.06	3.05	3.04	3.01	2.98
10.0	1.37	1.61	1.83	2.02	2.20	2.35	2.48	2.59	2.68	2.75	2.81	2.85	2.88	2.89	2.89	2.88	2.87	2.85	2.82	2.79	2.75
20.0	1.78	1.96	2.12	2.26	2.38	2.48	2.56	2.62	2.67	2.71	2.73	2.74	2.75	2.74	2.73	2.71	2.68	2.65	2.62	2.59	2.55
30.0	2.05	2.18	2.29	2.38	2.45	2.51	2.56	2.59	2.61	2.62	2.62	2.62	2.61	2.59	2.57	2.54	2.51	2.48	2.45	2.41	2.37
40.0	2.21	2.29	2.36	2.41	2.45	2.48	2.50	2.51	2.51	2.51	2.50	2.48	2.46	2.44	2.41	2.38	2.35	2.32	2.29	2.25	2.21
50.0	2.28	2.33	2.36	2.39	2.41	2.41	2.42	2.41	2.40	2.39	2.37	2.35	2.33	2.30	2.27	2.24	2.21	2.18	2.14	2.11	2.08
60.0	2.28	2.30	2.32	2.33	2.33	2.33	2.32	2.31	2.29	2.27	2.25	2.22	2.20	2.17	2.14	2.11	2.08	2.05	2.02	1.98	1.95
70.0	2.24	2.25	2.25	2.25	2.24	2.23	2.21	2.20	2.18	2.15	2.13	2.10	2.08	2.05	2.02	1.99	1.96	1.93	1.90	1.87	1.84
80.0	2.18	2.18	2.17	2.16	2.15	2.13	2.11	2.09	2.07	2.04	2.02	1.99	1.96	1.94	1.91	1.88	1.85	1.82	1.80	1.77	1.74
90.0	2.11	2.10	2.09	2.07	2.05	2.03	2.01	1.99	1.96	1.94	1.91	1.89	1.86	1.83	1.81	1.78	1.76	1.73	1.70	1.68	1.65
100.0	2.03	2.01	2.00	1.98	1.96	1.94	1.91	1.89	1.87	1.84	1.82	1.79	1.77	1.74	1.72	1.69	1.67	1.64	1.62	1.60	1.57
110.0	1.95	1.93	1.91	1.89	1.87	1.84	1.82	1.80	1.77	1.75	1.73	1.70	1.68	1.66	1.63	1.61	1.59	1.57	1.54	1.52	1.50
120.0	1.86	1.84	1.82	1.80	1.78	1.76	1.74	1.71	1.69	1.67	1.65	1.62	1.60	1.58	1.56	1.54	1.52	1.50	1.48	1.46	1.44
130.0	1.78	1.76	1.74	1.72	1.70	1.68	1.66	1.64	1.61	1.59	1.57	1.55	1.53	1.51	1.49	1.47	1.45	1.43	1.41	1.40	1.38
140.0	1.71	1.69	1.67	1.64	1.62	1.60	1.58	1.56	1.54	1.52	1.50	1.48	1.46	1.45	1.43	1.41	1.39	1.37	1.36	1.34	1.32
150.0	1.63	1.61	1.59	1.57	1.55	1.53	1.52	1.50	1.48	1.46	1.44	1.42	1.40	1.39	1.37	1.35	1.34	1.32	1.31	1.29	1.27
160.0	1.56	1.55	1.53	1.51	1.49	1.47	1.45	1.43	1.42	1.40	1.38	1.37	1.35	1.33	1.32	1.30	1.29	1.27	1.26	1.24	1.23
170.0	1.50	1.48	1.46	1.45	1.43	1.41	1.39	1.38	1.36	1.35	1.33	1.31	1.30	1.28	1.27	1.26	1.24	1.23	1.21	1.20	1.19
180.0	1.44	1.42	1.41	1.39	1.37	1.36	1.34	1.33	1.31	1.30	1.28	1.27	1.25	1.24	1.23	1.21	1.20	1.19	1.17	1.16	1.15
190.0	1.39	1.37	1.35	1.34	1.32	1.31	1.29	1.28	1.26	1.25	1.24	1.22	1.21	1.20	1.19	1.17	1.16	1.15	1.14	1.13	1.12
200.0	1.33	1.32	1.30	1.29	1.28	1.26	1.25	1.23	1.22	1.21	1.20	1.18	1.17	1.16	1.15	1.14	1.13	1.11	1.10	1.09	1.08

CAUTION --- POSSIBLE 2% PU POLYMER FORMATION IN 1.00 HOURS FOR PLUTONIUM CONCENTRATIONS IN EXCESS OF 5.28 G/L.

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 0.30
TBP - VOLUME FRACTION - 0.100
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	0.16	0.20	0.24	0.27	0.31	0.35	0.38	0.41	0.44	0.46	0.48	0.50	0.51	0.53	0.54	0.54	0.55	0.55	0.55	0.55	0.55
10.0	0.22	0.25	0.29	0.32	0.34	0.37	0.39	0.41	0.43	0.45	0.46	0.47	0.48	0.49	0.49	0.49	0.50	0.50	0.50	0.49	0.49
20.0	0.27	0.29	0.32	0.34	0.36	0.38	0.39	0.41	0.42	0.43	0.44	0.44	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
30.0	0.29	0.31	0.33	0.35	0.36	0.37	0.38	0.39	0.40	0.41	0.41	0.41	0.42	0.42	0.42	0.42	0.42	0.42	0.41	0.41	0.41
40.0	0.31	0.32	0.33	0.34	0.35	0.36	0.37	0.37	0.38	0.38	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.38	0.38	0.38	0.37
50.0	0.31	0.32	0.33	0.34	0.34	0.35	0.35	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.35	0.35	0.35
60.0	0.31	0.31	0.32	0.33	0.33	0.33	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.33	0.33	0.33	0.33	0.32
70.0	0.30	0.31	0.31	0.31	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.31	0.31	0.31	0.31	0.30	0.30
80.0	0.29	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.29	0.29	0.29	0.29	0.28
90.0	0.28	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.28	0.28	0.28	0.28	0.28	0.27	0.27	0.27	0.27
100.0	0.27	0.27	0.28	0.28	0.28	0.28	0.28	0.28	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.26	0.26	0.26	0.26	0.25	0.25
110.0	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.25	0.25	0.25	0.25	0.24	0.24	0.24
120.0	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.24	0.24	0.24	0.24	0.24	0.23	0.23	0.23	0.23	0.23
130.0	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.23	0.23	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.22	0.21
140.0	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.20
150.0	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.20	0.19
160.0	0.22	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.19
170.0	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18
180.0	0.20	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.18	0.17	0.17	0.17
190.0	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.16
200.0	0.19	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.16

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 0.30
TBP - VOLUME FRACTION - 0.100
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	0.06	0.07	0.09	0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.21	0.21	0.22	0.22	0.22
10.0	0.08	0.09	0.11	0.12	0.13	0.14	0.15	0.16	0.16	0.17	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.20
20.0	0.10	0.11	0.12	0.13	0.14	0.14	0.15	0.15	0.16	0.16	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
30.0	0.11	0.12	0.12	0.13	0.14	0.14	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17
40.0	0.12	0.12	0.13	0.13	0.13	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.15
50.0	0.12	0.12	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
60.0	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
70.0	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
80.0	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
90.0	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
100.0	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
110.0	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
120.0	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
130.0	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
140.0	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
150.0	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
160.0	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
170.0	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
180.0	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
190.0	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
200.0	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 0.30
TBP - VOLUME FRACTION - 0.100
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	2.07	2.28	2.48	2.65	2.80	2.93	3.04	3.13	3.19	3.24	3.27	3.28	3.27	3.26	3.24	3.20	3.16	3.12	3.07	3.01	2.96
10.0	2.37	2.52	2.66	2.77	2.86	2.94	2.99	3.03	3.05	3.06	3.06	3.05	3.03	3.00	2.97	2.93	2.89	2.84	2.80	2.75	2.69
20.0	2.53	2.63	2.71	2.78	2.83	2.86	2.88	2.89	2.89	2.88	2.86	2.84	2.81	2.78	2.74	2.70	2.66	2.61	2.57	2.52	2.48
30.0	2.59	2.64	2.69	2.72	2.73	2.74	2.74	2.73	2.72	2.70	2.67	2.64	2.61	2.58	2.54	2.50	2.46	2.42	2.37	2.33	2.29
40.0	2.56	2.59	2.61	2.62	2.62	2.61	2.60	2.58	2.55	2.53	2.50	2.47	2.43	2.40	2.36	2.32	2.29	2.25	2.21	2.17	2.13
50.0	2.50	2.51	2.51	2.50	2.49	2.47	2.45	2.43	2.40	2.37	2.34	2.31	2.27	2.24	2.21	2.17	2.13	2.10	2.06	2.03	1.99
60.0	2.41	2.40	2.39	2.38	2.36	2.34	2.31	2.29	2.26	2.23	2.20	2.17	2.13	2.10	2.07	2.03	2.00	1.97	1.94	1.90	1.87
70.0	2.31	2.29	2.28	2.26	2.23	2.21	2.18	2.16	2.13	2.10	2.07	2.04	2.01	1.98	1.94	1.91	1.88	1.85	1.82	1.80	1.77
80.0	2.20	2.18	2.16	2.14	2.12	2.09	2.06	2.04	2.01	1.98	1.95	1.92	1.89	1.86	1.84	1.81	1.78	1.75	1.72	1.70	1.67
90.0	2.10	2.08	2.05	2.03	2.00	1.98	1.95	1.93	1.90	1.87	1.84	1.82	1.79	1.76	1.74	1.71	1.69	1.66	1.64	1.61	1.59
100.0	2.00	1.97	1.95	1.93	1.90	1.88	1.85	1.83	1.80	1.77	1.75	1.72	1.70	1.67	1.65	1.63	1.60	1.58	1.56	1.54	1.51
110.0	1.90	1.88	1.85	1.83	1.81	1.78	1.76	1.73	1.71	1.69	1.66	1.64	1.62	1.59	1.57	1.55	1.53	1.51	1.49	1.47	1.45
120.0	1.81	1.79	1.76	1.74	1.72	1.70	1.67	1.65	1.63	1.61	1.58	1.56	1.54	1.52	1.50	1.48	1.46	1.44	1.42	1.40	1.39
130.0	1.73	1.70	1.68	1.66	1.64	1.62	1.60	1.57	1.55	1.53	1.51	1.49	1.47	1.45	1.44	1.42	1.40	1.38	1.36	1.35	1.33
140.0	1.65	1.63	1.61	1.59	1.56	1.54	1.52	1.50	1.49	1.47	1.45	1.43	1.41	1.39	1.38	1.36	1.34	1.33	1.31	1.30	1.28
150.0	1.58	1.56	1.54	1.52	1.50	1.48	1.46	1.44	1.42	1.41	1.39	1.37	1.36	1.34	1.32	1.31	1.29	1.28	1.26	1.25	1.24
160.0	1.51	1.49	1.47	1.45	1.44	1.42	1.40	1.38	1.37	1.35	1.34	1.32	1.30	1.29	1.28	1.26	1.25	1.23	1.22	1.21	1.19
170.0	1.45	1.43	1.41	1.40	1.38	1.36	1.35	1.33	1.32	1.30	1.29	1.27	1.26	1.24	1.23	1.22	1.20	1.19	1.18	1.17	1.16
180.0	1.39	1.37	1.36	1.34	1.33	1.31	1.30	1.28	1.27	1.26	1.24	1.23	1.22	1.20	1.19	1.18	1.17	1.15	1.14	1.13	1.12
190.0	1.34	1.32	1.31	1.29	1.28	1.27	1.25	1.24	1.23	1.21	1.20	1.19	1.18	1.16	1.15	1.14	1.13	1.12	1.11	1.10	1.09
200.0	1.29	1.28	1.26	1.25	1.24	1.22	1.21	1.20	1.19	1.17	1.16	1.15	1.14	1.13	1.12	1.11	1.10	1.09	1.08	1.07	1.06

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 0.50
TBP - VOLUME FRACTION - 0.100
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	0.37	0.41	0.45	0.48	0.52	0.54	0.57	0.59	0.60	0.62	0.62	0.63	0.63	0.64	0.63	0.63	0.63	0.62	0.61	0.60	0.60
10.0	0.40	0.43	0.45	0.48	0.50	0.51	0.53	0.54	0.55	0.55	0.56	0.56	0.56	0.56	0.56	0.55	0.55	0.54	0.54	0.53	0.52
20.0	0.41	0.43	0.44	0.46	0.47	0.48	0.49	0.50	0.50	0.50	0.51	0.51	0.50	0.50	0.50	0.50	0.49	0.49	0.48	0.47	0.47
30.0	0.40	0.42	0.43	0.44	0.44	0.45	0.45	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.45	0.45	0.44	0.44	0.43	0.43	0.42
40.0	0.39	0.40	0.41	0.41	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.41	0.41	0.41	0.40	0.40	0.39	0.39
50.0	0.37	0.38	0.38	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.38	0.38	0.38	0.37	0.37	0.36	0.36	0.36
60.0	0.36	0.36	0.36	0.37	0.37	0.37	0.37	0.37	0.37	0.36	0.36	0.36	0.36	0.36	0.35	0.35	0.34	0.34	0.34	0.33	0.33
70.0	0.34	0.34	0.34	0.34	0.35	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.33	0.33	0.33	0.32	0.32	0.32	0.31	0.31	0.31
80.0	0.32	0.32	0.33	0.33	0.33	0.32	0.32	0.32	0.32	0.32	0.32	0.31	0.31	0.31	0.31	0.30	0.30	0.30	0.29	0.29	0.29
90.0	0.31	0.31	0.31	0.31	0.31	0.31	0.30	0.30	0.30	0.30	0.30	0.29	0.29	0.29	0.29	0.28	0.28	0.28	0.27	0.27	0.27
100.0	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.28	0.28	0.28	0.28	0.28	0.27	0.27	0.27	0.26	0.26	0.26	0.26	0.25
110.0	0.28	0.28	0.28	0.28	0.28	0.27	0.27	0.27	0.27	0.27	0.26	0.26	0.26	0.26	0.25	0.25	0.25	0.25	0.24	0.24	0.24
120.0	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.25	0.25	0.25	0.25	0.24	0.24	0.24	0.24	0.23	0.23	0.23	0.23
130.0	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.24	0.24	0.24	0.24	0.24	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.22	0.21
140.0	0.24	0.24	0.24	0.24	0.24	0.24	0.23	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.20
150.0	0.23	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.19
160.0	0.22	0.22	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.19
170.0	0.21	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18
180.0	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.17	0.17	0.17
190.0	0.20	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.16	0.16
200.0	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.16

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 0.50
TBP - VOLUME FRACTION - 0.100
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	0.14	0.15	0.17	0.18	0.19	0.21	0.22	0.22	0.23	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.24	0.24
10.0	0.15	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.21
20.0	0.15	0.16	0.17	0.17	0.18	0.18	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.19
30.0	0.15	0.16	0.16	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
40.0	0.15	0.15	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.16
50.0	0.14	0.15	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.15	0.15
60.0	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.14
70.0	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
80.0	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
90.0	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.12
100.0	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
110.0	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.11	0.11	0.11
120.0	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
130.0	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
140.0	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
150.0	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
160.0	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
170.0	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
180.0	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
190.0	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
200.0	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 0.50
TBP - VOLUME FRACTION - 0.100
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	3.06	3.21	3.32	3.42	3.48	3.53	3.56	3.56	3.56	3.53	3.50	3.46	3.41	3.35	3.29	3.22	3.16	3.09	3.02	2.95	2.88
10.0	3.09	3.16	3.22	3.26	3.28	3.29	3.28	3.26	3.24	3.20	3.16	3.12	3.07	3.01	2.96	2.90	2.84	2.78	2.72	2.66	2.61
20.0	3.01	3.04	3.06	3.07	3.06	3.05	3.03	3.00	2.97	2.93	2.88	2.84	2.79	2.74	2.69	2.64	2.59	2.54	2.48	2.43	2.38
30.0	2.88	2.89	2.89	2.87	2.86	2.83	2.80	2.77	2.73	2.69	2.65	2.61	2.56	2.52	2.47	2.42	2.38	2.33	2.29	2.24	2.20
40.0	2.74	2.73	2.71	2.69	2.66	2.63	2.60	2.57	2.53	2.49	2.45	2.41	2.37	2.33	2.29	2.24	2.20	2.16	2.12	2.08	2.04
50.0	2.59	2.57	2.54	2.52	2.49	2.46	2.42	2.39	2.35	2.32	2.28	2.24	2.20	2.16	2.13	2.09	2.05	2.02	1.98	1.95	1.91
60.0	2.44	2.42	2.39	2.36	2.33	2.30	2.27	2.23	2.20	2.16	2.13	2.09	2.06	2.02	1.99	1.96	1.92	1.89	1.86	1.83	1.80
70.0	2.30	2.27	2.25	2.22	2.19	2.16	2.12	2.09	2.06	2.03	2.00	1.96	1.93	1.90	1.87	1.84	1.81	1.78	1.75	1.72	1.70
80.0	2.17	2.14	2.12	2.09	2.06	2.03	2.00	1.97	1.94	1.91	1.88	1.85	1.82	1.79	1.76	1.74	1.71	1.68	1.66	1.63	1.61
90.0	2.05	2.03	2.00	1.97	1.94	1.91	1.89	1.86	1.83	1.80	1.78	1.75	1.72	1.70	1.67	1.65	1.62	1.60	1.58	1.55	1.53
100.0	1.94	1.92	1.89	1.86	1.84	1.81	1.78	1.76	1.73	1.71	1.68	1.66	1.64	1.61	1.59	1.57	1.54	1.52	1.50	1.48	1.46
110.0	1.84	1.82	1.79	1.77	1.74	1.72	1.69	1.67	1.65	1.62	1.60	1.58	1.56	1.54	1.51	1.49	1.47	1.45	1.44	1.42	1.40
120.0	1.75	1.73	1.70	1.68	1.66	1.63	1.61	1.59	1.57	1.55	1.53	1.51	1.49	1.47	1.45	1.43	1.41	1.39	1.38	1.36	1.34
130.0	1.67	1.64	1.62	1.60	1.58	1.56	1.54	1.52	1.50	1.48	1.46	1.44	1.42	1.41	1.39	1.37	1.35	1.34	1.32	1.31	1.29
140.0	1.59	1.57	1.55	1.53	1.51	1.49	1.47	1.45	1.44	1.42	1.40	1.38	1.37	1.35	1.33	1.32	1.30	1.29	1.27	1.26	1.24
150.0	1.52	1.50	1.48	1.46	1.45	1.43	1.41	1.39	1.38	1.36	1.35	1.33	1.31	1.30	1.28	1.27	1.26	1.24	1.23	1.21	1.20
160.0	1.46	1.44	1.42	1.40	1.39	1.37	1.36	1.34	1.32	1.31	1.30	1.28	1.27	1.25	1.24	1.23	1.21	1.20	1.19	1.17	1.16
170.0	1.40	1.38	1.37	1.35	1.34	1.32	1.31	1.29	1.28	1.26	1.25	1.24	1.22	1.21	1.20	1.18	1.17	1.16	1.15	1.14	1.13
180.0	1.35	1.33	1.32	1.30	1.29	1.27	1.26	1.25	1.23	1.22	1.21	1.20	1.18	1.17	1.16	1.15	1.14	1.12	1.11	1.10	1.09
190.0	1.30	1.28	1.27	1.26	1.24	1.23	1.22	1.20	1.19	1.18	1.17	1.16	1.15	1.13	1.12	1.11	1.10	1.09	1.08	1.07	1.06
200.0	1.25	1.24	1.23	1.21	1.20	1.19	1.18	1.17	1.16	1.14	1.13	1.12	1.11	1.10	1.09	1.08	1.07	1.06	1.05	1.04	1.03

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 1.00
TBP - VOLUME FRACTION - 0.100
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	1.15	1.14	1.12	1.10	1.08	1.05	1.02	0.99	0.96	0.94	0.91	0.88	0.85	0.82	0.80	0.77	0.75	0.72	0.70	0.68	0.66
10.0	0.88	0.88	0.87	0.85	0.84	0.83	0.81	0.79	0.77	0.76	0.74	0.72	0.70	0.68	0.66	0.65	0.63	0.61	0.60	0.58	0.56
20.0	0.73	0.73	0.72	0.71	0.70	0.69	0.68	0.66	0.65	0.64	0.63	0.61	0.60	0.59	0.57	0.56	0.55	0.53	0.52	0.51	0.49
30.0	0.63	0.62	0.62	0.61	0.60	0.59	0.58	0.58	0.57	0.56	0.54	0.53	0.52	0.51	0.50	0.49	0.48	0.47	0.46	0.45	0.44
40.0	0.55	0.55	0.54	0.54	0.53	0.52	0.52	0.51	0.50	0.49	0.48	0.48	0.47	0.46	0.45	0.44	0.43	0.42	0.41	0.41	0.40
50.0	0.50	0.49	0.49	0.48	0.47	0.47	0.46	0.46	0.45	0.44	0.44	0.43	0.42	0.41	0.41	0.40	0.39	0.38	0.38	0.37	0.36
60.0	0.45	0.44	0.44	0.44	0.43	0.42	0.42	0.41	0.41	0.40	0.40	0.39	0.38	0.38	0.37	0.36	0.36	0.35	0.34	0.34	0.33
70.0	0.41	0.41	0.40	0.40	0.39	0.39	0.38	0.38	0.37	0.37	0.36	0.36	0.35	0.35	0.34	0.33	0.33	0.32	0.32	0.31	0.31
80.0	0.38	0.37	0.37	0.37	0.36	0.36	0.35	0.35	0.34	0.34	0.33	0.33	0.33	0.32	0.32	0.31	0.31	0.30	0.29	0.29	0.28
90.0	0.35	0.35	0.34	0.34	0.34	0.33	0.33	0.32	0.32	0.32	0.31	0.31	0.30	0.30	0.29	0.29	0.28	0.28	0.28	0.27	0.27
100.0	0.33	0.32	0.32	0.32	0.31	0.31	0.31	0.30	0.30	0.29	0.29	0.29	0.28	0.28	0.27	0.27	0.27	0.26	0.26	0.25	0.25
110.0	0.31	0.30	0.30	0.30	0.29	0.29	0.29	0.28	0.28	0.28	0.27	0.27	0.26	0.26	0.26	0.25	0.25	0.25	0.24	0.24	0.23
120.0	0.29	0.28	0.28	0.28	0.28	0.27	0.27	0.27	0.26	0.26	0.26	0.25	0.25	0.25	0.24	0.24	0.24	0.23	0.23	0.22	0.22
130.0	0.27	0.27	0.27	0.26	0.26	0.26	0.25	0.25	0.25	0.24	0.24	0.24	0.24	0.23	0.23	0.23	0.22	0.22	0.22	0.21	0.21
140.0	0.26	0.25	0.25	0.25	0.25	0.24	0.24	0.24	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.20	0.20
150.0	0.24	0.24	0.24	0.24	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.19	0.19
160.0	0.23	0.23	0.23	0.22	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.18	0.18
170.0	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.17	0.17
180.0	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17
190.0	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16
200.0	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.16	0.15	0.15

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 1.00
TBP - VOLUME FRACTION - 0.100
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	0.45	0.44	0.44	0.43	0.42	0.42	0.41	0.40	0.39	0.38	0.37	0.36	0.35	0.34	0.33	0.33	0.32	0.31	0.30	0.30	0.29
10.0	0.35	0.34	0.34	0.34	0.34	0.33	0.33	0.32	0.32	0.31	0.30	0.30	0.29	0.29	0.28	0.28	0.27	0.27	0.26	0.26	0.25
20.0	0.29	0.29	0.29	0.28	0.28	0.28	0.28	0.27	0.27	0.27	0.26	0.26	0.25	0.25	0.25	0.24	0.24	0.23	0.23	0.23	0.22
30.0	0.25	0.25	0.25	0.25	0.25	0.24	0.24	0.24	0.24	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.20
40.0	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.19
50.0	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.18	0.17	0.17
60.0	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16
70.0	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.15	0.15	0.15
80.0	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.14	0.14
90.0	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
100.0	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.13	0.13
110.0	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
120.0	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
130.0	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
140.0	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.11
150.0	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
160.0	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
170.0	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
180.0	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
190.0	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
200.0	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 1.00
TBP - VOLUME FRACTION - 0.100
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	4.91	4.78	4.64	4.50	4.35	4.21	4.07	3.94	3.81	3.68	3.56	3.44	3.33	3.22	3.12	3.03	2.93	2.84	2.76	2.68	2.60
10.0	4.02	3.93	3.83	3.73	3.63	3.54	3.44	3.34	3.25	3.16	3.07	2.99	2.90	2.83	2.75	2.67	2.60	2.54	2.47	2.41	2.35
20.0	3.47	3.39	3.32	3.24	3.17	3.09	3.01	2.94	2.87	2.80	2.73	2.66	2.60	2.53	2.47	2.41	2.36	2.30	2.25	2.20	2.15
30.0	3.07	3.01	2.95	2.89	2.82	2.76	2.70	2.64	2.58	2.52	2.47	2.41	2.36	2.31	2.26	2.21	2.16	2.11	2.07	2.03	1.98
40.0	2.77	2.72	2.67	2.61	2.56	2.51	2.45	2.40	2.35	2.31	2.26	2.21	2.17	2.12	2.08	2.04	2.00	1.96	1.92	1.89	1.85
50.0	2.53	2.48	2.44	2.39	2.35	2.30	2.26	2.21	2.17	2.13	2.09	2.05	2.01	1.97	1.94	1.90	1.86	1.83	1.80	1.77	1.74
60.0	2.33	2.29	2.25	2.21	2.17	2.13	2.09	2.05	2.02	1.98	1.95	1.91	1.88	1.84	1.81	1.78	1.75	1.72	1.69	1.66	1.64
70.0	2.17	2.13	2.09	2.06	2.02	1.99	1.95	1.92	1.89	1.85	1.82	1.79	1.76	1.74	1.71	1.68	1.65	1.63	1.60	1.58	1.55
80.0	2.02	1.99	1.96	1.93	1.89	1.86	1.83	1.80	1.78	1.75	1.72	1.69	1.67	1.64	1.62	1.59	1.57	1.54	1.52	1.50	1.48
90.0	1.90	1.87	1.84	1.81	1.78	1.76	1.73	1.70	1.68	1.65	1.63	1.60	1.58	1.56	1.54	1.51	1.49	1.47	1.45	1.43	1.41
100.0	1.79	1.76	1.74	1.71	1.69	1.66	1.64	1.62	1.59	1.57	1.55	1.53	1.51	1.49	1.46	1.45	1.43	1.41	1.39	1.37	1.35
110.0	1.70	1.67	1.65	1.63	1.60	1.58	1.56	1.54	1.52	1.50	1.48	1.46	1.44	1.42	1.40	1.38	1.37	1.35	1.33	1.31	1.30
120.0	1.61	1.59	1.57	1.55	1.53	1.51	1.49	1.47	1.45	1.43	1.41	1.40	1.38	1.36	1.34	1.33	1.31	1.30	1.28	1.26	1.25
130.0	1.54	1.52	1.50	1.48	1.46	1.44	1.42	1.41	1.39	1.37	1.36	1.34	1.32	1.31	1.29	1.28	1.26	1.25	1.23	1.22	1.20
140.0	1.47	1.45	1.43	1.42	1.40	1.38	1.37	1.35	1.34	1.32	1.30	1.29	1.27	1.26	1.25	1.23	1.22	1.20	1.19	1.18	1.16
150.0	1.41	1.39	1.38	1.36	1.35	1.33	1.32	1.30	1.29	1.27	1.26	1.24	1.23	1.22	1.20	1.19	1.18	1.16	1.15	1.14	1.13
160.0	1.35	1.34	1.32	1.31	1.30	1.28	1.27	1.25	1.24	1.23	1.21	1.20	1.19	1.18	1.16	1.15	1.14	1.13	1.12	1.10	1.09
170.0	1.30	1.29	1.28	1.26	1.25	1.24	1.22	1.21	1.20	1.19	1.17	1.16	1.15	1.14	1.13	1.12	1.10	1.09	1.08	1.07	1.06
180.0	1.26	1.25	1.23	1.22	1.21	1.20	1.18	1.17	1.16	1.15	1.14	1.13	1.12	1.10	1.09	1.08	1.07	1.06	1.05	1.04	1.03
190.0	1.22	1.21	1.19	1.18	1.17	1.16	1.15	1.14	1.13	1.12	1.10	1.09	1.08	1.07	1.06	1.05	1.04	1.03	1.02	1.01	1.00
200.0	1.18	1.17	1.16	1.15	1.14	1.12	1.11	1.10	1.09	1.08	1.07	1.06	1.05	1.04	1.03	1.02	1.01	1.00	0.99	0.98	0.97

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 3.00
TBP - VOLUME FRACTION - 0.100
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	7.13	4.15	3.01	2.38	1.97	1.68	1.47	1.30	1.17	1.06	0.97	0.89	0.82	0.76	0.71	0.66	0.62	0.58	0.55	0.52	0.49
10.0	2.14	1.82	1.59	1.40	1.26	1.14	1.04	0.95	0.88	0.82	0.76	0.71	0.67	0.63	0.59	0.56	0.53	0.50	0.47	0.45	0.43
20.0	1.33	1.21	1.10	1.01	0.94	0.87	0.81	0.76	0.71	0.67	0.63	0.59	0.56	0.53	0.51	0.48	0.46	0.44	0.42	0.40	0.38
30.0	0.98	0.91	0.85	0.80	0.75	0.70	0.66	0.63	0.60	0.56	0.54	0.51	0.49	0.46	0.44	0.42	0.40	0.39	0.37	0.36	0.34
40.0	0.78	0.74	0.70	0.66	0.62	0.59	0.56	0.54	0.51	0.49	0.47	0.45	0.43	0.41	0.39	0.38	0.36	0.35	0.34	0.32	0.31
50.0	0.65	0.62	0.59	0.56	0.54	0.51	0.49	0.47	0.45	0.43	0.42	0.40	0.38	0.37	0.36	0.34	0.33	0.32	0.31	0.29	0.28
60.0	0.56	0.53	0.51	0.49	0.47	0.45	0.44	0.42	0.40	0.39	0.37	0.36	0.35	0.34	0.32	0.31	0.30	0.29	0.28	0.27	0.26
70.0	0.49	0.47	0.45	0.44	0.42	0.41	0.39	0.38	0.36	0.35	0.34	0.33	0.32	0.31	0.30	0.29	0.28	0.27	0.26	0.25	0.24
80.0	0.44	0.42	0.41	0.39	0.38	0.37	0.36	0.34	0.33	0.32	0.31	0.30	0.29	0.28	0.27	0.27	0.26	0.25	0.24	0.23	0.23
90.0	0.39	0.38	0.37	0.36	0.35	0.34	0.33	0.32	0.31	0.30	0.29	0.28	0.27	0.26	0.25	0.25	0.24	0.23	0.23	0.22	0.21
100.0	0.36	0.35	0.34	0.33	0.32	0.31	0.30	0.29	0.28	0.28	0.27	0.26	0.25	0.24	0.24	0.23	0.22	0.22	0.21	0.21	0.20
110.0	0.33	0.32	0.31	0.30	0.30	0.29	0.28	0.27	0.26	0.26	0.25	0.24	0.24	0.23	0.22	0.22	0.21	0.21	0.20	0.19	0.19
120.0	0.31	0.30	0.29	0.28	0.27	0.27	0.26	0.25	0.25	0.24	0.23	0.23	0.22	0.22	0.21	0.20	0.20	0.19	0.19	0.18	0.18
130.0	0.28	0.28	0.27	0.26	0.26	0.25	0.24	0.24	0.23	0.23	0.22	0.21	0.21	0.20	0.20	0.19	0.19	0.18	0.18	0.17	0.17
140.0	0.27	0.26	0.25	0.25	0.24	0.24	0.23	0.22	0.22	0.21	0.21	0.20	0.20	0.19	0.19	0.18	0.18	0.17	0.17	0.17	0.16
150.0	0.25	0.24	0.24	0.23	0.23	0.22	0.22	0.21	0.21	0.20	0.20	0.19	0.19	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.15
160.0	0.24	0.23	0.23	0.22	0.22	0.21	0.21	0.20	0.20	0.19	0.19	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.15	0.15	0.15
170.0	0.22	0.22	0.21	0.21	0.20	0.20	0.20	0.19	0.19	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.15	0.15	0.15	0.14	0.14
180.0	0.21	0.21	0.20	0.20	0.19	0.19	0.19	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.15	0.15	0.15	0.14	0.14	0.14	0.13
190.0	0.20	0.20	0.19	0.19	0.19	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.14	0.14	0.14	0.14	0.13	0.13
200.0	0.19	0.19	0.18	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.15	0.14	0.14	0.14	0.13	0.13	0.13	0.12

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 3.00
TBP - VOLUME FRACTION - 0.100
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	3.96	2.33	1.71	1.37	1.15	0.99	0.88	0.79	0.71	0.65	0.60	0.56	0.53	0.49	0.47	0.44	0.42	0.40	0.38	0.36	0.35
10.0	1.21	1.05	0.92	0.83	0.75	0.69	0.63	0.59	0.55	0.52	0.49	0.46	0.44	0.42	0.40	0.38	0.36	0.35	0.34	0.32	0.31
20.0	0.77	0.71	0.65	0.61	0.57	0.53	0.50	0.48	0.45	0.43	0.41	0.39	0.38	0.36	0.35	0.34	0.32	0.31	0.30	0.29	0.28
30.0	0.58	0.55	0.52	0.49	0.47	0.44	0.42	0.41	0.39	0.37	0.36	0.35	0.34	0.32	0.31	0.30	0.29	0.29	0.28	0.27	0.26
40.0	0.47	0.45	0.43	0.41	0.40	0.38	0.37	0.36	0.34	0.33	0.32	0.31	0.30	0.29	0.29	0.28	0.27	0.26	0.26	0.25	0.24
50.0	0.40	0.39	0.37	0.36	0.35	0.34	0.33	0.32	0.31	0.30	0.29	0.29	0.28	0.27	0.26	0.26	0.25	0.25	0.24	0.24	0.23
60.0	0.35	0.34	0.33	0.32	0.31	0.31	0.30	0.29	0.28	0.28	0.27	0.26	0.26	0.25	0.25	0.24	0.24	0.23	0.23	0.22	0.22
70.0	0.32	0.31	0.30	0.29	0.29	0.28	0.27	0.27	0.26	0.26	0.25	0.25	0.24	0.24	0.23	0.23	0.22	0.22	0.21	0.21	0.21
80.0	0.29	0.28	0.28	0.27	0.27	0.26	0.26	0.25	0.25	0.24	0.24	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.20	0.20	0.20
90.0	0.27	0.26	0.26	0.25	0.25	0.24	0.24	0.24	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.21	0.20	0.20	0.20	0.19	0.19
100.0	0.25	0.25	0.24	0.24	0.23	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.21	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.18
110.0	0.24	0.23	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.18	0.18	0.18
120.0	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.17
130.0	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.17
140.0	0.20	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.16
150.0	0.20	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16
160.0	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.16
170.0	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.15
180.0	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.15	0.15	0.15
190.0	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.15	0.15	0.15	0.15
200.0	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.15	0.15	0.15	0.15	0.15	0.15

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 3.00
TBP - VOLUME FRACTION - 0.100
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	7.59	5.61	4.65	4.12	3.71	3.40	3.15	2.95	2.78	2.63	2.50	2.38	2.28	2.19	2.10	2.02	1.95	1.88	1.82	1.76	1.71
10.0	3.92	3.58	3.31	3.10	2.91	2.75	2.62	2.49	2.38	2.28	2.19	2.11	2.04	1.97	1.90	1.84	1.78	1.73	1.68	1.63	1.59
20.0	3.03	2.86	2.72	2.59	2.48	2.38	2.28	2.20	2.12	2.05	1.98	1.91	1.86	1.80	1.75	1.70	1.65	1.61	1.56	1.52	1.49
30.0	2.56	2.45	2.36	2.27	2.19	2.12	2.05	1.98	1.92	1.87	1.81	1.76	1.71	1.67	1.62	1.58	1.54	1.51	1.47	1.43	1.40
40.0	2.26	2.18	2.11	2.05	1.99	1.93	1.87	1.82	1.77	1.73	1.68	1.64	1.60	1.56	1.52	1.49	1.45	1.42	1.39	1.36	1.33
50.0	2.04	1.98	1.93	1.88	1.83	1.78	1.73	1.69	1.65	1.61	1.57	1.54	1.50	1.47	1.44	1.40	1.37	1.35	1.32	1.29	1.26
60.0	1.87	1.83	1.78	1.74	1.70	1.66	1.62	1.58	1.55	1.52	1.48	1.45	1.42	1.39	1.36	1.33	1.31	1.28	1.26	1.23	1.21
70.0	1.74	1.70	1.66	1.63	1.59	1.56	1.53	1.49	1.46	1.43	1.40	1.38	1.35	1.32	1.30	1.27	1.25	1.22	1.20	1.18	1.16
80.0	1.63	1.60	1.57	1.53	1.50	1.47	1.44	1.42	1.39	1.36	1.34	1.31	1.29	1.26	1.24	1.22	1.19	1.17	1.15	1.13	1.11
90.0	1.54	1.51	1.48	1.45	1.43	1.40	1.37	1.35	1.32	1.30	1.28	1.25	1.23	1.21	1.19	1.17	1.15	1.13	1.11	1.09	1.07
100.0	1.46	1.43	1.41	1.38	1.36	1.33	1.31	1.29	1.27	1.24	1.22	1.20	1.18	1.16	1.14	1.12	1.10	1.08	1.07	1.05	1.03
110.0	1.39	1.37	1.34	1.32	1.30	1.28	1.26	1.23	1.21	1.19	1.17	1.16	1.14	1.12	1.10	1.08	1.06	1.05	1.03	1.01	1.00
120.0	1.33	1.31	1.29	1.27	1.25	1.23	1.21	1.19	1.17	1.15	1.13	1.11	1.10	1.08	1.06	1.04	1.03	1.01	1.00	0.98	0.96
130.0	1.27	1.25	1.24	1.22	1.20	1.18	1.16	1.14	1.13	1.11	1.09	1.07	1.06	1.04	1.03	1.01	0.99	0.98	0.96	0.95	0.93
140.0	1.23	1.21	1.19	1.17	1.15	1.14	1.12	1.10	1.09	1.07	1.05	1.04	1.02	1.01	0.99	0.98	0.96	0.95	0.93	0.92	0.91
150.0	1.18	1.16	1.15	1.13	1.11	1.10	1.08	1.07	1.05	1.04	1.02	1.01	0.99	0.98	0.96	0.95	0.93	0.92	0.91	0.89	0.88
160.0	1.14	1.12	1.11	1.09	1.08	1.06	1.05	1.03	1.02	1.00	0.99	0.98	0.96	0.95	0.93	0.92	0.91	0.90	0.88	0.87	0.86
170.0	1.10	1.09	1.07	1.06	1.04	1.03	1.02	1.00	0.99	0.97	0.96	0.95	0.93	0.92	0.91	0.90	0.88	0.87	0.86	0.85	0.83
180.0	1.07	1.05	1.04	1.03	1.01	1.00	0.99	0.97	0.96	0.95	0.93	0.92	0.91	0.90	0.88	0.87	0.86	0.85	0.84	0.83	0.81
190.0	1.04	1.02	1.01	1.00	0.98	0.97	0.96	0.95	0.93	0.92	0.91	0.90	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.80	0.79
200.0	1.01	0.99	0.98	0.97	0.96	0.95	0.93	0.92	0.91	0.90	0.89	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.79	0.77

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 5.00
TBP - VOLUME FRACTION - 0.100
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	8.19	3.30	2.16	1.61	1.29	1.08	0.92	0.80	0.71	0.64	0.58	0.52	0.48	0.44	0.41	0.38	0.35	0.33	0.31	0.29	0.27
10.0	2.15	1.62	1.31	1.09	0.94	0.82	0.72	0.65	0.59	0.53	0.49	0.45	0.42	0.39	0.36	0.34	0.32	0.30	0.28	0.27	0.25
20.0	1.31	1.10	0.95	0.83	0.74	0.66	0.60	0.55	0.50	0.46	0.43	0.40	0.37	0.35	0.33	0.31	0.29	0.27	0.26	0.24	0.23
30.0	0.96	0.84	0.75	0.67	0.61	0.56	0.51	0.47	0.44	0.41	0.38	0.36	0.33	0.31	0.30	0.28	0.26	0.25	0.24	0.23	0.21
40.0	0.76	0.69	0.62	0.57	0.52	0.48	0.45	0.42	0.39	0.36	0.34	0.32	0.30	0.29	0.27	0.26	0.24	0.23	0.22	0.21	0.20
50.0	0.63	0.58	0.53	0.49	0.46	0.42	0.40	0.37	0.35	0.33	0.31	0.29	0.28	0.26	0.25	0.24	0.23	0.21	0.20	0.20	0.19
60.0	0.54	0.50	0.47	0.43	0.41	0.38	0.36	0.34	0.32	0.30	0.28	0.27	0.26	0.24	0.23	0.22	0.21	0.20	0.19	0.18	0.18
70.0	0.47	0.44	0.41	0.39	0.37	0.34	0.32	0.31	0.29	0.28	0.26	0.25	0.24	0.23	0.22	0.21	0.20	0.19	0.18	0.17	0.17
80.0	0.42	0.40	0.37	0.35	0.33	0.31	0.30	0.28	0.27	0.26	0.24	0.23	0.22	0.21	0.20	0.19	0.18	0.18	0.17	0.16	0.16
90.0	0.38	0.36	0.34	0.32	0.30	0.29	0.27	0.26	0.25	0.24	0.23	0.22	0.21	0.20	0.19	0.18	0.17	0.17	0.16	0.15	0.15
100.0	0.35	0.33	0.31	0.30	0.28	0.27	0.26	0.24	0.23	0.22	0.21	0.20	0.19	0.19	0.18	0.17	0.16	0.16	0.15	0.15	0.14
110.0	0.32	0.30	0.29	0.27	0.26	0.25	0.24	0.23	0.22	0.21	0.20	0.19	0.18	0.18	0.17	0.16	0.16	0.15	0.14	0.14	0.13
120.0	0.30	0.28	0.27	0.26	0.24	0.23	0.22	0.21	0.21	0.20	0.19	0.18	0.17	0.17	0.16	0.15	0.15	0.14	0.14	0.13	0.13
130.0	0.27	0.26	0.25	0.24	0.23	0.22	0.21	0.20	0.19	0.19	0.18	0.17	0.17	0.16	0.15	0.15	0.14	0.14	0.13	0.13	0.12
140.0	0.26	0.25	0.24	0.23	0.22	0.21	0.20	0.19	0.18	0.18	0.17	0.16	0.16	0.15	0.15	0.14	0.14	0.13	0.13	0.12	0.12
150.0	0.24	0.23	0.22	0.21	0.20	0.20	0.19	0.18	0.17	0.17	0.16	0.16	0.15	0.14	0.14	0.13	0.13	0.12	0.12	0.12	0.11
160.0	0.23	0.22	0.21	0.20	0.19	0.19	0.18	0.17	0.17	0.16	0.15	0.15	0.14	0.14	0.13	0.13	0.12	0.12	0.12	0.11	0.11
170.0	0.22	0.21	0.20	0.19	0.18	0.18	0.17	0.16	0.16	0.15	0.15	0.14	0.14	0.13	0.13	0.12	0.12	0.12	0.11	0.11	0.10
180.0	0.20	0.20	0.19	0.18	0.18	0.17	0.16	0.16	0.15	0.15	0.14	0.14	0.13	0.13	0.12	0.12	0.11	0.11	0.11	0.10	0.10
190.0	0.19	0.19	0.18	0.17	0.17	0.16	0.16	0.15	0.15	0.14	0.14	0.13	0.13	0.12	0.12	0.11	0.11	0.11	0.10	0.10	0.10
200.0	0.19	0.18	0.17	0.17	0.16	0.15	0.15	0.14	0.14	0.13	0.13	0.13	0.12	0.12	0.11	0.11	0.11	0.10	0.10	0.10	0.09

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 5.00
TBP - VOLUME FRACTION - 0.100
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	7.89	3.23	2.14	1.63	1.32	1.12	0.97	0.86	0.77	0.70	0.64	0.59	0.55	0.51	0.48	0.46	0.43	0.41	0.39	0.37	0.36
10.0	2.12	1.63	1.33	1.13	0.98	0.87	0.78	0.71	0.65	0.60	0.56	0.52	0.49	0.46	0.44	0.42	0.40	0.38	0.36	0.35	0.33
20.0	1.33	1.13	0.99	0.88	0.79	0.72	0.66	0.61	0.57	0.53	0.50	0.47	0.45	0.43	0.41	0.39	0.37	0.35	0.34	0.33	0.32
30.0	1.00	0.89	0.80	0.73	0.67	0.62	0.58	0.54	0.51	0.48	0.46	0.43	0.41	0.39	0.38	0.36	0.35	0.33	0.32	0.31	0.30
40.0	0.81	0.74	0.68	0.63	0.59	0.55	0.52	0.49	0.47	0.44	0.42	0.40	0.39	0.37	0.35	0.34	0.33	0.32	0.31	0.30	0.29
50.0	0.69	0.64	0.60	0.56	0.53	0.50	0.47	0.45	0.43	0.41	0.39	0.38	0.36	0.35	0.34	0.32	0.31	0.30	0.29	0.28	0.28
60.0	0.61	0.57	0.54	0.51	0.48	0.46	0.44	0.42	0.40	0.38	0.37	0.36	0.34	0.33	0.32	0.31	0.30	0.29	0.28	0.27	0.27
70.0	0.55	0.52	0.49	0.47	0.45	0.43	0.41	0.39	0.38	0.36	0.35	0.34	0.33	0.32	0.31	0.30	0.29	0.28	0.27	0.26	0.26
80.0	0.50	0.48	0.45	0.43	0.42	0.40	0.38	0.37	0.36	0.34	0.33	0.32	0.31	0.30	0.29	0.29	0.28	0.27	0.26	0.26	0.25
90.0	0.46	0.44	0.42	0.41	0.39	0.38	0.36	0.35	0.34	0.33	0.32	0.31	0.30	0.29	0.28	0.28	0.27	0.26	0.25	0.25	0.24
100.0	0.43	0.41	0.40	0.38	0.37	0.36	0.35	0.34	0.33	0.32	0.31	0.30	0.29	0.28	0.27	0.27	0.26	0.25	0.25	0.24	0.24
110.0	0.41	0.39	0.38	0.37	0.35	0.34	0.33	0.32	0.31	0.30	0.30	0.29	0.28	0.27	0.27	0.26	0.25	0.25	0.24	0.24	0.23
120.0	0.39	0.37	0.36	0.35	0.34	0.33	0.32	0.31	0.30	0.29	0.29	0.28	0.27	0.27	0.26	0.25	0.25	0.24	0.24	0.23	0.23
130.0	0.37	0.36	0.35	0.34	0.33	0.32	0.31	0.30	0.29	0.29	0.28	0.27	0.27	0.26	0.25	0.25	0.24	0.24	0.23	0.23	0.22
140.0	0.35	0.34	0.33	0.32	0.32	0.31	0.30	0.29	0.28	0.28	0.27	0.26	0.26	0.25	0.25	0.24	0.24	0.23	0.23	0.22	0.22
150.0	0.34	0.33	0.32	0.31	0.31	0.30	0.29	0.28	0.28	0.27	0.26	0.26	0.25	0.25	0.24	0.24	0.23	0.23	0.22	0.22	0.21
160.0	0.33	0.32	0.31	0.31	0.30	0.29	0.28	0.28	0.27	0.26	0.26	0.25	0.25	0.24	0.24	0.23	0.23	0.22	0.22	0.22	0.21
170.0	0.32	0.31	0.30	0.30	0.29	0.28	0.28	0.27	0.27	0.26	0.25	0.25	0.24	0.24	0.23	0.23	0.23	0.22	0.22	0.21	0.21
180.0	0.31	0.30	0.30	0.29	0.28	0.28	0.27	0.27	0.26	0.25	0.25	0.24	0.24	0.24	0.23	0.23	0.22	0.22	0.21	0.21	0.21
190.0	0.30	0.30	0.29	0.28	0.28	0.27	0.27	0.26	0.26	0.25	0.25	0.24	0.24	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.20
200.0	0.30	0.29	0.28	0.28	0.27	0.27	0.26	0.26	0.25	0.25	0.24	0.24	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.21	0.20

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 5.00
TBP - VOLUME FRACTION - 0.100
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	6.57	4.12	3.31	2.85	2.54	2.31	2.13	1.99	1.87	1.76	1.67	1.59	1.52	1.45	1.40	1.34	1.29	1.25	1.21	1.17	1.13
10.0	3.31	2.86	2.56	2.33	2.15	2.01	1.88	1.78	1.69	1.61	1.54	1.47	1.41	1.36	1.31	1.26	1.22	1.18	1.15	1.11	1.08
20.0	2.57	2.34	2.17	2.02	1.90	1.80	1.70	1.62	1.55	1.49	1.43	1.37	1.32	1.28	1.24	1.20	1.16	1.12	1.09	1.06	1.03
30.0	2.18	2.04	1.92	1.81	1.72	1.64	1.57	1.50	1.44	1.39	1.34	1.29	1.25	1.21	1.17	1.14	1.10	1.07	1.04	1.02	0.99
40.0	1.93	1.83	1.74	1.66	1.58	1.52	1.46	1.40	1.35	1.31	1.26	1.22	1.19	1.15	1.12	1.09	1.06	1.03	1.00	0.98	0.95
50.0	1.75	1.67	1.60	1.53	1.47	1.42	1.37	1.32	1.28	1.24	1.20	1.17	1.13	1.10	1.07	1.04	1.01	0.99	0.96	0.94	0.92
60.0	1.61	1.55	1.49	1.43	1.38	1.34	1.29	1.25	1.21	1.18	1.15	1.11	1.08	1.05	1.03	1.00	0.98	0.95	0.93	0.91	0.89
70.0	1.50	1.45	1.40	1.35	1.31	1.27	1.23	1.19	1.16	1.13	1.10	1.07	1.04	1.01	0.99	0.96	0.94	0.92	0.90	0.88	0.86
80.0	1.41	1.37	1.32	1.28	1.24	1.21	1.17	1.14	1.11	1.08	1.05	1.03	1.00	0.98	0.95	0.93	0.91	0.89	0.87	0.85	0.83
90.0	1.34	1.30	1.26	1.22	1.19	1.15	1.12	1.09	1.06	1.04	1.01	0.99	0.96	0.94	0.92	0.90	0.88	0.86	0.84	0.82	0.81
100.0	1.27	1.23	1.20	1.17	1.14	1.11	1.08	1.05	1.03	1.00	0.98	0.95	0.93	0.91	0.89	0.87	0.85	0.84	0.82	0.80	0.78
110.0	1.21	1.18	1.15	1.12	1.09	1.06	1.04	1.01	0.99	0.97	0.94	0.92	0.90	0.88	0.86	0.85	0.83	0.81	0.80	0.78	0.76
120.0	1.16	1.13	1.10	1.08	1.05	1.03	1.00	0.98	0.96	0.94	0.91	0.89	0.88	0.86	0.84	0.82	0.81	0.79	0.77	0.76	0.74
130.0	1.12	1.09	1.06	1.04	1.01	0.99	0.97	0.95	0.93	0.91	0.89	0.87	0.85	0.83	0.82	0.80	0.78	0.77	0.75	0.74	0.73
140.0	1.08	1.05	1.03	1.00	0.98	0.96	0.94	0.92	0.90	0.88	0.86	0.84	0.83	0.81	0.79	0.78	0.76	0.75	0.74	0.72	0.71
150.0	1.04	1.02	0.99	0.97	0.95	0.93	0.91	0.89	0.87	0.86	0.84	0.82	0.81	0.79	0.77	0.76	0.75	0.73	0.72	0.70	0.69
160.0	1.01	0.98	0.96	0.94	0.92	0.90	0.88	0.87	0.85	0.83	0.82	0.80	0.78	0.77	0.76	0.74	0.73	0.71	0.70	0.69	0.68
170.0	0.98	0.95	0.93	0.92	0.90	0.88	0.86	0.84	0.83	0.81	0.80	0.78	0.77	0.75	0.74	0.72	0.71	0.70	0.69	0.67	0.66
180.0	0.95	0.93	0.91	0.89	0.87	0.86	0.84	0.82	0.81	0.79	0.78	0.76	0.75	0.73	0.72	0.71	0.70	0.68	0.67	0.66	0.65
190.0	0.92	0.90	0.88	0.87	0.85	0.83	0.82	0.80	0.79	0.77	0.76	0.74	0.73	0.72	0.70	0.69	0.68	0.67	0.66	0.65	0.63
200.0	0.90	0.88	0.86	0.85	0.83	0.81	0.80	0.78	0.77	0.76	0.74	0.73	0.72	0.70	0.69	0.68	0.67	0.65	0.64	0.63	0.62

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 0.10
TBP - VOLUME FRACTION - 0.200
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	0.14	0.23	0.35	0.47	0.61	0.74	0.87	0.99	1.10	1.21	1.30	1.37	1.44	1.49	1.53	1.56	1.58	1.60	1.61	1.61	1.61
10.0	0.33	0.44	0.55	0.66	0.76	0.86	0.95	1.02	1.09	1.15	1.20	1.24	1.28	1.30	1.32	1.34	1.35	1.35	1.36	1.36	1.35
20.0	0.50	0.60	0.68	0.76	0.83	0.89	0.95	1.00	1.04	1.07	1.10	1.12	1.14	1.16	1.17	1.17	1.18	1.18	1.18	1.17	1.17
30.0	0.62	0.68	0.74	0.80	0.84	0.88	0.92	0.94	0.97	0.99	1.01	1.02	1.03	1.04	1.04	1.04	1.05	1.04	1.04	1.04	1.03
40.0	0.67	0.72	0.76	0.79	0.82	0.85	0.87	0.89	0.90	0.91	0.92	0.93	0.94	0.94	0.94	0.94	0.94	0.94	0.93	0.93	0.92
50.0	0.69	0.72	0.75	0.77	0.79	0.80	0.82	0.83	0.84	0.84	0.85	0.85	0.86	0.86	0.86	0.86	0.85	0.85	0.85	0.84	0.84
60.0	0.68	0.70	0.72	0.74	0.75	0.76	0.77	0.77	0.78	0.78	0.79	0.79	0.79	0.79	0.79	0.78	0.78	0.78	0.77	0.77	0.77
70.0	0.67	0.68	0.69	0.70	0.71	0.71	0.72	0.72	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.72	0.72	0.72	0.71	0.71	0.70
80.0	0.64	0.65	0.66	0.66	0.67	0.67	0.67	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.67	0.67	0.67	0.66	0.66	0.66	0.65
90.0	0.61	0.62	0.62	0.63	0.63	0.63	0.63	0.64	0.64	0.64	0.64	0.63	0.63	0.63	0.63	0.63	0.62	0.62	0.62	0.61	0.61
100.0	0.59	0.59	0.59	0.59	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.59	0.59	0.59	0.59	0.59	0.58	0.58	0.58	0.57	0.57
110.0	0.56	0.56	0.56	0.56	0.56	0.57	0.57	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.55	0.55	0.55	0.54	0.54	0.54	0.53
120.0	0.53	0.53	0.53	0.54	0.54	0.54	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.52	0.52	0.52	0.52	0.51	0.51	0.51	0.50
130.0	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.50	0.50	0.50	0.50	0.50	0.49	0.49	0.49	0.49	0.48	0.48	0.48	0.47
140.0	0.49	0.49	0.49	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.47	0.47	0.47	0.47	0.46	0.46	0.46	0.46	0.45	0.45
150.0	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.45	0.45	0.45	0.45	0.45	0.44	0.44	0.44	0.44	0.43	0.43	0.43
160.0	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.43	0.43	0.43	0.43	0.43	0.42	0.42	0.42	0.42	0.41	0.41	0.41	0.41
170.0	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.41	0.41	0.41	0.41	0.41	0.40	0.40	0.40	0.40	0.40	0.39	0.39	0.39
180.0	0.41	0.41	0.41	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.39	0.39	0.39	0.39	0.38	0.38	0.38	0.38	0.38	0.37	0.37
190.0	0.39	0.39	0.39	0.39	0.39	0.39	0.38	0.38	0.38	0.38	0.38	0.37	0.37	0.37	0.37	0.37	0.36	0.36	0.36	0.36	0.35
200.0	0.38	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.36	0.36	0.36	0.36	0.36	0.36	0.35	0.35	0.35	0.35	0.34	0.34	0.34

CAUTION --- POSSIBLE 2% PU POLYMER FORMATION IN 1.00 HOURS FOR PLUTONIUM CONCENTRATIONS IN EXCESS OF 18.18 G/L.

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 0.10
TBP - VOLUME FRACTION - 0.200
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	0.04	0.06	0.09	0.12	0.16	0.19	0.23	0.26	0.29	0.32	0.34	0.36	0.38	0.39	0.40	0.41	0.42	0.43	0.43	0.43	0.43
10.0	0.08	0.11	0.14	0.17	0.20	0.22	0.25	0.27	0.29	0.30	0.32	0.33	0.34	0.34	0.35	0.36	0.36	0.36	0.36	0.37	0.37
20.0	0.13	0.15	0.18	0.20	0.22	0.23	0.25	0.26	0.27	0.28	0.29	0.30	0.30	0.31	0.31	0.31	0.32	0.32	0.32	0.32	0.32
30.0	0.16	0.18	0.19	0.21	0.22	0.23	0.24	0.25	0.26	0.26	0.27	0.27	0.27	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
40.0	0.18	0.19	0.20	0.21	0.22	0.22	0.23	0.23	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.26	0.26
50.0	0.18	0.19	0.20	0.20	0.21	0.21	0.22	0.22	0.22	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.24	0.24	0.24	0.23
60.0	0.18	0.19	0.19	0.19	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
70.0	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
80.0	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
90.0	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
100.0	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
110.0	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
120.0	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
130.0	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
140.0	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
150.0	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14
160.0	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
170.0	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
180.0	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
190.0	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
200.0	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12

CAUTION --- POSSIBLE 2% PU POLYMER FORMATION IN 1.00 HOURS FOR PLUTONIUM CONCENTRATIONS IN EXCESS OF 18.18 G/L.

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 0.10
TBP - VOLUME FRACTION - 0.200
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	2.50	3.32	4.08	4.76	5.37	5.90	6.34	6.69	6.97	7.17	7.30	7.37	7.39	7.37	7.31	7.23	7.12	6.99	6.85	6.70	6.55
10.0	3.90	4.50	5.01	5.43	5.78	6.05	6.26	6.40	6.50	6.55	6.56	6.54	6.49	6.42	6.34	6.24	6.13	6.02	5.89	5.77	5.64
20.0	4.71	5.07	5.35	5.57	5.73	5.84	5.91	5.95	5.95	5.93	5.89	5.84	5.77	5.69	5.60	5.50	5.40	5.30	5.19	5.08	4.97
30.0	5.00	5.18	5.31	5.40	5.46	5.48	5.48	5.47	5.43	5.38	5.32	5.25	5.18	5.10	5.01	4.92	4.83	4.74	4.64	4.55	4.45
40.0	4.97	5.05	5.09	5.11	5.11	5.09	5.06	5.02	4.97	4.91	4.84	4.77	4.69	4.61	4.53	4.45	4.37	4.28	4.20	4.12	4.04
50.0	4.79	4.80	4.80	4.79	4.76	4.72	4.67	4.62	4.56	4.49	4.43	4.36	4.28	4.21	4.14	4.06	3.99	3.91	3.84	3.77	3.69
60.0	4.54	4.53	4.50	4.46	4.42	4.37	4.32	4.26	4.20	4.14	4.07	4.00	3.94	3.87	3.80	3.73	3.67	3.60	3.54	3.47	3.41
70.0	4.28	4.25	4.21	4.16	4.11	4.06	4.00	3.95	3.89	3.82	3.76	3.70	3.64	3.58	3.52	3.45	3.39	3.33	3.28	3.22	3.16
80.0	4.02	3.98	3.93	3.88	3.83	3.78	3.72	3.67	3.61	3.55	3.49	3.44	3.38	3.32	3.27	3.21	3.16	3.11	3.05	3.00	2.95
90.0	3.77	3.73	3.68	3.63	3.58	3.53	3.47	3.42	3.37	3.31	3.26	3.21	3.15	3.10	3.05	3.00	2.96	2.91	2.86	2.82	2.77
100.0	3.54	3.50	3.45	3.40	3.35	3.30	3.25	3.20	3.15	3.10	3.05	3.00	2.96	2.91	2.86	2.82	2.78	2.73	2.69	2.65	2.61
110.0	3.33	3.29	3.24	3.19	3.15	3.10	3.05	3.00	2.96	2.91	2.87	2.83	2.78	2.74	2.70	2.66	2.62	2.58	2.54	2.51	2.47
120.0	3.14	3.09	3.05	3.01	2.96	2.92	2.87	2.83	2.79	2.75	2.71	2.67	2.63	2.59	2.55	2.52	2.48	2.45	2.41	2.38	2.35
130.0	2.96	2.92	2.88	2.84	2.79	2.75	2.71	2.67	2.64	2.60	2.56	2.52	2.49	2.45	2.42	2.39	2.36	2.33	2.30	2.27	2.24
140.0	2.80	2.76	2.72	2.68	2.64	2.61	2.57	2.53	2.50	2.46	2.43	2.40	2.37	2.33	2.30	2.27	2.25	2.22	2.19	2.16	2.14
150.0	2.65	2.62	2.58	2.54	2.51	2.47	2.44	2.41	2.38	2.34	2.31	2.28	2.25	2.23	2.20	2.17	2.15	2.12	2.10	2.07	2.05
160.0	2.52	2.49	2.45	2.42	2.39	2.35	2.32	2.29	2.26	2.24	2.21	2.18	2.15	2.13	2.10	2.08	2.06	2.03	2.01	1.99	1.97
170.0	2.40	2.37	2.34	2.31	2.28	2.25	2.22	2.19	2.16	2.14	2.11	2.09	2.06	2.04	2.02	2.00	1.98	1.96	1.94	1.92	1.90
180.0	2.29	2.26	2.23	2.20	2.17	2.15	2.12	2.10	2.07	2.05	2.03	2.00	1.98	1.96	1.94	1.92	1.90	1.88	1.87	1.85	1.83
190.0	2.19	2.16	2.13	2.11	2.08	2.06	2.04	2.01	1.99	1.97	1.95	1.93	1.91	1.89	1.87	1.85	1.84	1.82	1.80	1.78	1.77
200.0	2.09	2.07	2.05	2.02	2.00	1.98	1.96	1.94	1.92	1.90	1.88	1.86	1.84	1.82	1.81	1.79	1.77	1.76	1.74	1.73	1.71

CAUTION --- POSSIBLE 2% PU POLYMER FORMATION IN 1.00 HOURS FOR PLUTONIUM CONCENTRATIONS IN EXCESS OF 18.18 G/L.

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 0.30
TBP - VOLUME FRACTION - 0.200
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	0.74	0.89	1.04	1.18	1.31	1.42	1.52	1.61	1.68	1.74	1.78	1.81	1.83	1.84	1.85	1.84	1.84	1.82	1.80	1.78	1.76
10.0	0.89	0.99	1.09	1.17	1.24	1.31	1.36	1.41	1.44	1.47	1.49	1.50	1.51	1.51	1.51	1.51	1.50	1.49	1.48	1.46	1.45
20.0	0.94	1.00	1.06	1.11	1.15	1.19	1.22	1.24	1.26	1.27	1.28	1.29	1.29	1.29	1.29	1.28	1.28	1.27	1.26	1.24	1.23
30.0	0.93	0.97	1.00	1.03	1.06	1.08	1.09	1.11	1.12	1.12	1.13	1.13	1.13	1.13	1.12	1.12	1.11	1.10	1.09	1.08	1.07
40.0	0.89	0.92	0.94	0.96	0.97	0.98	0.99	1.00	1.00	1.01	1.01	1.01	1.01	1.00	1.00	0.99	0.99	0.98	0.97	0.96	0.95
50.0	0.84	0.86	0.87	0.88	0.89	0.90	0.90	0.91	0.91	0.91	0.91	0.91	0.91	0.90	0.90	0.89	0.89	0.88	0.87	0.87	0.86
60.0	0.79	0.80	0.81	0.82	0.82	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.82	0.82	0.82	0.81	0.81	0.80	0.79	0.79	0.78
70.0	0.75	0.75	0.76	0.76	0.76	0.77	0.77	0.77	0.77	0.76	0.76	0.76	0.76	0.75	0.75	0.74	0.74	0.73	0.73	0.72	0.71
80.0	0.70	0.70	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.70	0.70	0.70	0.69	0.69	0.69	0.68	0.68	0.67	0.67	0.66
90.0	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.65	0.65	0.65	0.64	0.64	0.64	0.63	0.63	0.62	0.62	0.61
100.0	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.61	0.61	0.61	0.60	0.60	0.60	0.59	0.59	0.58	0.58	0.58	0.57
110.0	0.59	0.59	0.59	0.59	0.59	0.58	0.58	0.58	0.58	0.58	0.57	0.57	0.57	0.56	0.56	0.56	0.55	0.55	0.54	0.54	0.53
120.0	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.54	0.54	0.54	0.54	0.53	0.53	0.53	0.52	0.52	0.52	0.51	0.51	0.50
130.0	0.53	0.53	0.52	0.52	0.52	0.52	0.52	0.52	0.51	0.51	0.51	0.51	0.50	0.50	0.50	0.49	0.49	0.49	0.49	0.48	0.47
140.0	0.50	0.50	0.50	0.50	0.49	0.49	0.49	0.49	0.49	0.48	0.48	0.48	0.48	0.47	0.47	0.47	0.46	0.46	0.46	0.45	0.45
150.0	0.48	0.47	0.47	0.47	0.47	0.47	0.47	0.46	0.46	0.46	0.46	0.45	0.45	0.45	0.45	0.44	0.44	0.44	0.43	0.43	0.43
160.0	0.45	0.45	0.45	0.45	0.45	0.45	0.44	0.44	0.44	0.44	0.43	0.43	0.43	0.43	0.42	0.42	0.42	0.41	0.41	0.41	0.41
170.0	0.43	0.43	0.43	0.43	0.43	0.42	0.42	0.42	0.42	0.42	0.41	0.41	0.41	0.41	0.40	0.40	0.40	0.40	0.39	0.39	0.39
180.0	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.40	0.40	0.40	0.39	0.39	0.39	0.39	0.39	0.38	0.38	0.38	0.37	0.37	0.37
190.0	0.40	0.39	0.39	0.39	0.39	0.39	0.39	0.38	0.38	0.38	0.38	0.38	0.37	0.37	0.37	0.37	0.36	0.36	0.36	0.36	0.35
200.0	0.38	0.38	0.38	0.38	0.37	0.37	0.37	0.37	0.37	0.36	0.36	0.36	0.36	0.36	0.35	0.35	0.35	0.35	0.34	0.34	0.34

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 0.30
TBP - VOLUME FRACTION - 0.200
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	0.19	0.23	0.27	0.31	0.34	0.37	0.40	0.42	0.44	0.46	0.47	0.48	0.49	0.49	0.49	0.50	0.49	0.49	0.49	0.49	0.48
10.0	0.23	0.26	0.28	0.31	0.33	0.34	0.36	0.37	0.38	0.39	0.40	0.40	0.40	0.41	0.41	0.41	0.41	0.41	0.40	0.40	0.40
20.0	0.24	0.26	0.28	0.29	0.30	0.31	0.32	0.33	0.33	0.34	0.34	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.34	0.34
30.0	0.24	0.25	0.26	0.27	0.28	0.29	0.29	0.30	0.30	0.30	0.30	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.30	0.30	0.30
40.0	0.23	0.24	0.25	0.25	0.26	0.26	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.28	0.28	0.27	0.27	0.27	0.27	0.27	0.27
50.0	0.22	0.23	0.23	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
60.0	0.21	0.21	0.22	0.22	0.22	0.22	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
70.0	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
80.0	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
90.0	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
100.0	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
110.0	0.16	0.16	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
120.0	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
130.0	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
140.0	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
150.0	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
160.0	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
170.0	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
180.0	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
190.0	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13
200.0	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 0.30
TBP - VOLUME FRACTION - 0.200
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	5.96	6.51	6.97	7.35	7.64	7.85	7.99	8.05	8.06	8.02	7.94	7.83	7.70	7.54	7.38	7.20	7.02	6.83	6.64	6.46	6.27
10.0	6.24	6.52	6.72	6.86	6.95	6.99	7.00	6.96	6.90	6.82	6.72	6.61	6.48	6.35	6.21	6.07	5.93	5.78	5.64	5.50	5.36
20.0	6.07	6.17	6.24	6.26	6.26	6.23	6.19	6.12	6.04	5.95	5.85	5.74	5.63	5.52	5.40	5.28	5.17	5.05	4.93	4.82	4.70
30.0	5.70	5.72	5.72	5.69	5.65	5.59	5.53	5.45	5.37	5.28	5.19	5.09	4.99	4.89	4.79	4.69	4.59	4.49	4.40	4.30	4.21
40.0	5.29	5.27	5.23	5.18	5.12	5.06	4.99	4.91	4.83	4.74	4.66	4.57	4.49	4.40	4.31	4.22	4.14	4.06	3.97	3.89	3.81
50.0	4.89	4.85	4.80	4.74	4.67	4.61	4.53	4.46	4.39	4.31	4.23	4.15	4.08	4.00	3.92	3.85	3.77	3.70	3.63	3.56	3.49
60.0	4.52	4.47	4.41	4.35	4.29	4.22	4.15	4.08	4.01	3.94	3.87	3.81	3.74	3.67	3.60	3.54	3.47	3.41	3.35	3.29	3.23
70.0	4.19	4.13	4.08	4.02	3.95	3.89	3.83	3.76	3.70	3.64	3.57	3.51	3.45	3.39	3.33	3.27	3.22	3.16	3.11	3.05	3.00
80.0	3.89	3.84	3.78	3.72	3.66	3.60	3.55	3.49	3.43	3.37	3.32	3.26	3.20	3.15	3.10	3.05	3.00	2.95	2.90	2.85	2.81
90.0	3.63	3.57	3.52	3.46	3.41	3.36	3.30	3.25	3.20	3.14	3.09	3.04	2.99	2.95	2.90	2.85	2.81	2.77	2.72	2.68	2.64
100.0	3.39	3.34	3.29	3.24	3.19	3.14	3.09	3.04	2.99	2.94	2.90	2.85	2.81	2.77	2.72	2.68	2.64	2.61	2.57	2.53	2.50
110.0	3.18	3.13	3.08	3.03	2.99	2.94	2.90	2.85	2.81	2.77	2.73	2.69	2.65	2.61	2.57	2.54	2.50	2.47	2.43	2.40	2.37
120.0	2.99	2.94	2.90	2.86	2.81	2.77	2.73	2.69	2.65	2.61	2.58	2.54	2.51	2.47	2.44	2.41	2.37	2.34	2.31	2.28	2.26
130.0	2.82	2.78	2.74	2.70	2.66	2.62	2.58	2.55	2.51	2.48	2.44	2.41	2.38	2.35	2.32	2.29	2.26	2.23	2.21	2.18	2.15
140.0	2.66	2.63	2.59	2.55	2.52	2.48	2.45	2.42	2.39	2.35	2.32	2.29	2.27	2.24	2.21	2.19	2.16	2.13	2.11	2.09	2.06
150.0	2.53	2.49	2.46	2.42	2.39	2.36	2.33	2.30	2.27	2.24	2.22	2.19	2.16	2.14	2.12	2.09	2.07	2.05	2.02	2.00	1.98
160.0	2.40	2.37	2.34	2.31	2.28	2.25	2.22	2.20	2.17	2.15	2.12	2.10	2.07	2.05	2.03	2.01	1.99	1.97	1.95	1.93	1.91
170.0	2.29	2.26	2.23	2.21	2.18	2.15	2.13	2.10	2.08	2.06	2.03	2.01	1.99	1.97	1.95	1.93	1.91	1.89	1.88	1.86	1.84
180.0	2.19	2.16	2.14	2.11	2.09	2.06	2.04	2.02	2.00	1.98	1.96	1.94	1.92	1.90	1.88	1.86	1.84	1.83	1.81	1.79	1.78
190.0	2.10	2.07	2.05	2.03	2.00	1.98	1.96	1.94	1.92	1.90	1.88	1.87	1.85	1.83	1.82	1.80	1.78	1.77	1.75	1.74	1.72
200.0	2.01	1.99	1.97	1.95	1.93	1.91	1.89	1.87	1.85	1.84	1.82	1.80	1.79	1.77	1.76	1.74	1.73	1.71	1.70	1.68	1.67

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 0.50
TBP - VOLUME FRACTION - 0.200
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	1.59	1.73	1.85	1.96	2.04	2.10	2.14	2.17	2.19	2.19	2.19	2.17	2.15	2.13	2.10	2.06	2.03	1.99	1.95	1.91	1.87
10.0	1.44	1.51	1.57	1.62	1.66	1.68	1.70	1.72	1.72	1.72	1.71	1.70	1.69	1.68	1.66	1.64	1.61	1.59	1.56	1.54	1.51
20.0	1.30	1.33	1.36	1.39	1.41	1.42	1.43	1.43	1.43	1.43	1.42	1.41	1.40	1.39	1.38	1.36	1.35	1.33	1.31	1.29	1.27
30.0	1.16	1.19	1.20	1.21	1.22	1.23	1.23	1.23	1.23	1.23	1.22	1.21	1.21	1.20	1.18	1.17	1.16	1.15	1.13	1.12	1.10
40.0	1.05	1.06	1.07	1.08	1.08	1.09	1.09	1.08	1.08	1.08	1.07	1.07	1.06	1.05	1.04	1.03	1.02	1.01	1.00	0.98	0.97
50.0	0.96	0.96	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87
60.0	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.87	0.87	0.86	0.86	0.85	0.84	0.84	0.83	0.82	0.81	0.81	0.80	0.79
70.0	0.81	0.81	0.81	0.81	0.81	0.81	0.80	0.80	0.80	0.79	0.79	0.78	0.78	0.77	0.76	0.76	0.75	0.74	0.74	0.73	0.72
80.0	0.75	0.75	0.75	0.75	0.74	0.74	0.74	0.74	0.73	0.73	0.72	0.72	0.71	0.71	0.70	0.70	0.69	0.68	0.68	0.67	0.66
90.0	0.69	0.69	0.69	0.69	0.69	0.69	0.68	0.68	0.68	0.67	0.67	0.66	0.66	0.65	0.65	0.64	0.64	0.63	0.63	0.62	0.61
100.0	0.65	0.65	0.65	0.64	0.64	0.64	0.64	0.63	0.63	0.63	0.62	0.62	0.61	0.61	0.60	0.60	0.59	0.59	0.58	0.58	0.57
110.0	0.61	0.61	0.60	0.60	0.60	0.60	0.59	0.59	0.59	0.58	0.58	0.58	0.57	0.57	0.56	0.56	0.55	0.55	0.55	0.54	0.53
120.0	0.57	0.57	0.57	0.57	0.56	0.56	0.56	0.56	0.55	0.55	0.54	0.54	0.54	0.53	0.53	0.52	0.52	0.52	0.51	0.51	0.50
130.0	0.54	0.54	0.54	0.53	0.53	0.53	0.53	0.52	0.52	0.52	0.51	0.51	0.51	0.50	0.50	0.49	0.49	0.49	0.48	0.48	0.47
140.0	0.51	0.51	0.51	0.50	0.50	0.50	0.50	0.49	0.49	0.49	0.48	0.48	0.48	0.47	0.47	0.47	0.46	0.46	0.46	0.45	0.45
150.0	0.48	0.48	0.48	0.48	0.48	0.47	0.47	0.47	0.46	0.46	0.46	0.46	0.45	0.45	0.45	0.44	0.44	0.44	0.43	0.43	0.42
160.0	0.46	0.46	0.46	0.45	0.45	0.45	0.45	0.44	0.44	0.44	0.44	0.43	0.43	0.43	0.42	0.42	0.42	0.41	0.41	0.41	0.40
170.0	0.44	0.44	0.43	0.43	0.43	0.43	0.43	0.42	0.42	0.42	0.41	0.41	0.41	0.41	0.40	0.40	0.40	0.39	0.39	0.39	0.38
180.0	0.42	0.42	0.41	0.41	0.41	0.41	0.41	0.40	0.40	0.40	0.40	0.39	0.39	0.39	0.38	0.38	0.38	0.38	0.37	0.37	0.37
190.0	0.40	0.40	0.40	0.39	0.39	0.39	0.39	0.39	0.38	0.38	0.38	0.38	0.37	0.37	0.37	0.37	0.36	0.36	0.36	0.35	0.35
200.0	0.38	0.38	0.38	0.38	0.38	0.37	0.37	0.37	0.37	0.36	0.36	0.36	0.36	0.35	0.35	0.35	0.35	0.34	0.34	0.34	0.34

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 0.50
TBP - VOLUME FRACTION - 0.200
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	0.42	0.45	0.49	0.51	0.54	0.55	0.57	0.58	0.58	0.59	0.59	0.58	0.58	0.58	0.57	0.56	0.56	0.55	0.54	0.53	0.52
10.0	0.38	0.40	0.41	0.43	0.44	0.45	0.45	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.45	0.45	0.45	0.44	0.44	0.43	0.43
20.0	0.34	0.35	0.36	0.37	0.37	0.38	0.38	0.38	0.39	0.39	0.39	0.39	0.39	0.38	0.38	0.38	0.38	0.37	0.37	0.37	0.36
30.0	0.31	0.31	0.32	0.32	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.32	0.32	0.32
40.0	0.28	0.28	0.29	0.29	0.29	0.29	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.28
50.0	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.26
60.0	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
70.0	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
80.0	0.20	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.20	0.20
90.0	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
100.0	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
110.0	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
120.0	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.16
130.0	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
140.0	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
150.0	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
160.0	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
170.0	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
180.0	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
190.0	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
200.0	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 0.50
TBP - VOLUME FRACTION - 0.200
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	8.56	8.80	8.95	9.01	9.01	8.95	8.83	8.68	8.51	8.31	8.10	7.87	7.65	7.42	7.19	6.97	6.75	6.54	6.33	6.13	5.94
10.0	7.53	7.57	7.56	7.52	7.44	7.34	7.22	7.08	6.94	6.78	6.62	6.46	6.29	6.13	5.97	5.81	5.65	5.50	5.35	5.20	5.06
20.0	6.64	6.61	6.55	6.47	6.38	6.27	6.16	6.04	5.92	5.79	5.66	5.53	5.40	5.27	5.15	5.02	4.90	4.78	4.66	4.55	4.44
30.0	5.91	5.85	5.77	5.69	5.60	5.50	5.40	5.29	5.18	5.08	4.97	4.86	4.76	4.65	4.55	4.45	4.35	4.25	4.16	4.06	3.98
40.0	5.31	5.24	5.16	5.08	4.99	4.90	4.81	4.72	4.62	4.53	4.44	4.35	4.26	4.17	4.09	4.00	3.92	3.84	3.76	3.68	3.61
50.0	4.81	4.74	4.66	4.58	4.50	4.42	4.34	4.26	4.18	4.10	4.02	3.94	3.87	3.79	3.72	3.64	3.57	3.51	3.44	3.38	3.31
60.0	4.39	4.32	4.25	4.18	4.10	4.03	3.96	3.89	3.82	3.75	3.68	3.61	3.54	3.48	3.41	3.35	3.29	3.23	3.18	3.12	3.07
70.0	4.03	3.97	3.90	3.84	3.77	3.70	3.64	3.58	3.51	3.45	3.39	3.33	3.27	3.22	3.16	3.11	3.06	3.01	2.96	2.91	2.86
80.0	3.72	3.66	3.60	3.54	3.49	3.43	3.37	3.31	3.26	3.20	3.15	3.10	3.05	3.00	2.95	2.90	2.86	2.81	2.77	2.73	2.68
90.0	3.46	3.40	3.35	3.29	3.24	3.19	3.14	3.09	3.04	2.99	2.94	2.89	2.85	2.81	2.76	2.72	2.68	2.64	2.60	2.57	2.53
100.0	3.23	3.18	3.13	3.08	3.03	2.98	2.94	2.89	2.85	2.80	2.76	2.72	2.68	2.64	2.60	2.57	2.53	2.50	2.46	2.43	2.40
110.0	3.02	2.98	2.93	2.89	2.84	2.80	2.76	2.72	2.68	2.64	2.60	2.57	2.53	2.50	2.46	2.43	2.40	2.37	2.34	2.31	2.28
120.0	2.84	2.80	2.76	2.72	2.68	2.64	2.60	2.57	2.53	2.50	2.47	2.43	2.40	2.37	2.34	2.31	2.28	2.26	2.23	2.20	2.18
130.0	2.68	2.64	2.61	2.57	2.54	2.50	2.47	2.44	2.40	2.37	2.34	2.31	2.29	2.26	2.23	2.20	2.18	2.15	2.13	2.11	2.08
140.0	2.54	2.51	2.47	2.44	2.41	2.38	2.35	2.32	2.29	2.26	2.23	2.21	2.18	2.16	2.13	2.11	2.09	2.06	2.04	2.02	2.00
150.0	2.41	2.38	2.35	2.32	2.29	2.26	2.24	2.21	2.19	2.16	2.14	2.11	2.09	2.07	2.04	2.02	2.00	1.98	1.96	1.94	1.92
160.0	2.30	2.27	2.24	2.22	2.19	2.16	2.14	2.12	2.09	2.07	2.05	2.03	2.01	1.99	1.97	1.95	1.93	1.91	1.89	1.87	1.85
170.0	2.20	2.17	2.14	2.12	2.10	2.07	2.05	2.03	2.01	1.99	1.97	1.95	1.93	1.91	1.89	1.88	1.86	1.84	1.82	1.81	1.79
180.0	2.10	2.08	2.06	2.03	2.01	1.99	1.97	1.95	1.93	1.91	1.90	1.88	1.86	1.84	1.83	1.81	1.79	1.78	1.76	1.75	1.73
190.0	2.02	2.00	1.98	1.96	1.94	1.92	1.90	1.88	1.86	1.85	1.83	1.81	1.80	1.78	1.77	1.75	1.74	1.72	1.71	1.69	1.68
200.0	1.94	1.92	1.90	1.89	1.87	1.85	1.83	1.82	1.80	1.79	1.77	1.76	1.74	1.73	1.71	1.70	1.68	1.67	1.66	1.64	1.63

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 1.00
TBP - VOLUME FRACTION - 0.200
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	4.46	4.27	4.09	3.92	3.75	3.59	3.44	3.30	3.16	3.03	2.91	2.80	2.69	2.58	2.49	2.39	2.30	2.22	2.14	2.06	1.99
10.0	2.65	2.60	2.55	2.50	2.44	2.38	2.32	2.26	2.21	2.15	2.09	2.03	1.98	1.92	1.87	1.82	1.77	1.72	1.67	1.62	1.58
20.0	1.96	1.94	1.91	1.88	1.85	1.82	1.78	1.75	1.72	1.68	1.65	1.61	1.58	1.54	1.51	1.47	1.44	1.41	1.38	1.34	1.31
30.0	1.58	1.56	1.54	1.52	1.50	1.48	1.46	1.44	1.41	1.39	1.37	1.34	1.32	1.29	1.27	1.24	1.22	1.20	1.17	1.15	1.12
40.0	1.33	1.31	1.30	1.29	1.27	1.26	1.24	1.22	1.21	1.19	1.17	1.15	1.13	1.11	1.10	1.08	1.06	1.04	1.02	1.00	0.99
50.0	1.15	1.14	1.13	1.12	1.10	1.09	1.08	1.07	1.05	1.04	1.02	1.01	1.00	0.98	0.97	0.95	0.94	0.92	0.91	0.89	0.88
60.0	1.01	1.01	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.92	0.91	0.90	0.89	0.88	0.86	0.85	0.84	0.83	0.81	0.80	0.79
70.0	0.91	0.90	0.89	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.79	0.78	0.77	0.76	0.75	0.74	0.73	0.72
80.0	0.82	0.82	0.81	0.80	0.80	0.79	0.78	0.77	0.77	0.76	0.75	0.74	0.73	0.72	0.71	0.70	0.70	0.69	0.68	0.67	0.66
90.0	0.75	0.75	0.74	0.74	0.73	0.72	0.72	0.71	0.70	0.69	0.69	0.68	0.67	0.66	0.66	0.65	0.64	0.63	0.63	0.62	0.61
100.0	0.69	0.69	0.68	0.68	0.67	0.67	0.66	0.65	0.65	0.64	0.64	0.63	0.62	0.62	0.61	0.60	0.59	0.59	0.58	0.57	0.57
110.0	0.64	0.64	0.63	0.63	0.62	0.62	0.61	0.61	0.60	0.60	0.59	0.58	0.58	0.57	0.57	0.56	0.55	0.55	0.54	0.53	0.53
120.0	0.60	0.60	0.59	0.59	0.58	0.58	0.57	0.57	0.56	0.56	0.55	0.55	0.54	0.54	0.53	0.52	0.52	0.51	0.51	0.50	0.50
130.0	0.56	0.56	0.55	0.55	0.55	0.54	0.54	0.53	0.53	0.52	0.52	0.51	0.51	0.50	0.50	0.49	0.49	0.48	0.48	0.47	0.47
140.0	0.53	0.52	0.52	0.52	0.51	0.51	0.50	0.50	0.50	0.49	0.49	0.48	0.48	0.47	0.47	0.46	0.46	0.45	0.45	0.45	0.44
150.0	0.50	0.49	0.49	0.49	0.48	0.48	0.48	0.47	0.47	0.46	0.46	0.46	0.45	0.45	0.44	0.44	0.43	0.43	0.43	0.42	0.42
160.0	0.47	0.47	0.47	0.46	0.46	0.45	0.45	0.45	0.44	0.44	0.44	0.43	0.43	0.42	0.42	0.42	0.41	0.41	0.40	0.40	0.40
170.0	0.45	0.44	0.44	0.44	0.44	0.43	0.43	0.43	0.42	0.42	0.41	0.41	0.41	0.40	0.40	0.40	0.39	0.39	0.38	0.38	0.36
180.0	0.43	0.42	0.42	0.42	0.41	0.41	0.41	0.40	0.40	0.40	0.39	0.39	0.39	0.38	0.38	0.38	0.37	0.37	0.37	0.36	0.36
190.0	0.41	0.40	0.40	0.40	0.39	0.39	0.39	0.39	0.38	0.38	0.38	0.37	0.37	0.37	0.36	0.36	0.36	0.35	0.35	0.35	0.34
200.0	0.39	0.39	0.38	0.38	0.38	0.37	0.37	0.37	0.37	0.36	0.36	0.36	0.35	0.35	0.35	0.34	0.34	0.34	0.34	0.33	0.33

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 1.00
TBP - VOLUME FRACTION - 0.200
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	1.20	1.16	1.11	1.07	1.03	0.99	0.95	0.91	0.88	0.85	0.82	0.79	0.76	0.74	0.72	0.69	0.67	0.65	0.63	0.61	0.60
10.0	0.72	0.71	0.70	0.69	0.67	0.66	0.65	0.63	0.62	0.61	0.59	0.58	0.57	0.56	0.54	0.53	0.52	0.51	0.50	0.49	0.48
20.0	0.54	0.53	0.53	0.52	0.52	0.51	0.50	0.50	0.49	0.48	0.47	0.47	0.46	0.45	0.44	0.44	0.43	0.42	0.42	0.41	0.40
30.0	0.44	0.43	0.43	0.43	0.42	0.42	0.41	0.41	0.41	0.40	0.40	0.39	0.39	0.38	0.38	0.37	0.37	0.36	0.36	0.36	0.35
40.0	0.37	0.37	0.37	0.36	0.36	0.36	0.36	0.35	0.35	0.35	0.34	0.34	0.34	0.34	0.33	0.33	0.33	0.32	0.32	0.32	0.31
50.0	0.32	0.32	0.32	0.32	0.32	0.32	0.31	0.31	0.31	0.31	0.31	0.30	0.30	0.30	0.30	0.29	0.29	0.29	0.29	0.28	0.28
60.0	0.29	0.29	0.29	0.29	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.27	0.27	0.27	0.27	0.27	0.27	0.26	0.26	0.26	0.26
70.0	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.24	0.24	0.24	0.24	0.24
80.0	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.22	0.22
90.0	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
100.0	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
110.0	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
120.0	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
130.0	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
140.0	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
150.0	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
160.0	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
170.0	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
180.0	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
190.0	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
200.0	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 1.00
TBP - VOLUME FRACTION - 0.200
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	12.49	11.81	11.18	10.59	10.05	9.54	9.07	8.64	8.24	7.87	7.52	7.20	6.90	6.62	6.36	6.12	5.90	5.68	5.48	5.30	5.12
10.0	8.42	8.13	7.85	7.58	7.32	7.06	6.82	6.59	6.37	6.15	5.95	5.76	5.57	5.40	5.23	5.07	4.92	4.78	4.64	4.52	4.39
20.0	6.66	6.48	6.30	6.12	5.95	5.78	5.61	5.46	5.30	5.16	5.02	4.88	4.75	4.63	4.51	4.39	4.28	4.17	4.07	3.98	3.88
30.0	5.61	5.47	5.34	5.21	5.08	4.95	4.83	4.71	4.60	4.49	4.38	4.28	4.18	4.08	3.99	3.90	3.81	3.73	3.65	3.57	3.50
40.0	4.88	4.78	4.67	4.57	4.46	4.36	4.27	4.18	4.08	4.00	3.91	3.83	3.75	3.67	3.60	3.53	3.46	3.39	3.33	3.26	3.20
50.0	4.34	4.26	4.17	4.08	4.00	3.92	3.84	3.76	3.69	3.62	3.55	3.48	3.41	3.35	3.29	3.23	3.17	3.12	3.06	3.01	2.96
60.0	3.92	3.85	3.78	3.70	3.64	3.57	3.50	3.44	3.38	3.32	3.26	3.20	3.15	3.09	3.04	2.99	2.94	2.89	2.85	2.80	2.76
70.0	3.59	3.52	3.46	3.40	3.34	3.28	3.23	3.17	3.12	3.07	3.02	2.97	2.92	2.88	2.83	2.79	2.75	2.71	2.67	2.63	2.59
80.0	3.31	3.25	3.20	3.15	3.09	3.04	3.00	2.95	2.90	2.86	2.82	2.77	2.73	2.69	2.66	2.62	2.58	2.55	2.51	2.48	2.45
90.0	3.07	3.02	2.98	2.93	2.89	2.84	2.80	2.76	2.72	2.68	2.65	2.61	2.57	2.54	2.50	2.47	2.44	2.41	2.38	2.35	2.32
100.0	2.87	2.83	2.79	2.75	2.71	2.67	2.63	2.60	2.56	2.53	2.50	2.47	2.43	2.40	2.37	2.34	2.32	2.29	2.26	2.23	2.21
110.0	2.70	2.66	2.63	2.59	2.56	2.52	2.49	2.46	2.43	2.40	2.37	2.34	2.31	2.28	2.26	2.23	2.21	2.18	2.16	2.13	2.11
120.0	2.55	2.52	2.48	2.45	2.42	2.39	2.36	2.34	2.31	2.28	2.25	2.23	2.20	2.18	2.16	2.13	2.11	2.09	2.06	2.04	2.02
130.0	2.42	2.39	2.36	2.33	2.30	2.28	2.25	2.23	2.20	2.18	2.15	2.13	2.11	2.09	2.06	2.04	2.02	2.00	1.98	1.96	1.94
140.0	2.30	2.27	2.25	2.22	2.20	2.18	2.15	2.13	2.11	2.09	2.06	2.04	2.02	2.00	1.98	1.96	1.94	1.93	1.91	1.89	1.87
150.0	2.20	2.17	2.15	2.13	2.11	2.08	2.06	2.04	2.02	2.00	1.98	1.96	1.95	1.93	1.91	1.89	1.87	1.86	1.84	1.82	1.80
160.0	2.10	2.08	2.06	2.04	2.02	2.00	1.98	1.96	1.95	1.93	1.91	1.89	1.87	1.86	1.84	1.82	1.81	1.79	1.78	1.76	1.74
170.0	2.02	2.00	1.98	1.96	1.94	1.93	1.91	1.89	1.88	1.86	1.84	1.83	1.81	1.79	1.78	1.76	1.75	1.73	1.72	1.70	1.69
180.0	1.94	1.93	1.91	1.89	1.88	1.86	1.84	1.83	1.81	1.80	1.78	1.77	1.75	1.74	1.72	1.71	1.69	1.68	1.66	1.65	1.64
190.0	1.88	1.86	1.84	1.83	1.81	1.80	1.78	1.77	1.75	1.74	1.72	1.71	1.70	1.68	1.67	1.66	1.64	1.63	1.61	1.60	1.59
200.0	1.81	1.80	1.78	1.77	1.75	1.74	1.73	1.71	1.70	1.69	1.67	1.66	1.65	1.63	1.62	1.61	1.59	1.58	1.57	1.56	1.54

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 3.00
TBP - VOLUME FRACTION - 0.200
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	22.06	12.84	9.27	7.30	6.03	5.15	4.48	3.97	3.56	3.22	2.93	2.69	2.49	2.31	2.15	2.01	1.88	1.77	1.66	1.57	1.49
10.0	4.93	4.37	3.92	3.55	3.24	2.98	2.75	2.55	2.38	2.22	2.08	1.96	1.85	1.75	1.65	1.57	1.49	1.42	1.35	1.29	1.23
20.0	2.93	2.73	2.55	2.39	2.25	2.12	2.00	1.89	1.80	1.71	1.62	1.55	1.48	1.41	1.35	1.29	1.23	1.18	1.13	1.09	1.05
30.0	2.10	2.00	1.90	1.81	1.73	1.65	1.58	1.51	1.45	1.39	1.33	1.28	1.23	1.18	1.14	1.10	1.06	1.02	0.98	0.95	0.91
40.0	1.65	1.58	1.52	1.46	1.41	1.36	1.31	1.26	1.21	1.17	1.13	1.09	1.06	1.02	0.99	0.95	0.92	0.89	0.86	0.84	0.81
50.0	1.36	1.32	1.27	1.23	1.19	1.15	1.12	1.08	1.05	1.01	0.98	0.95	0.92	0.90	0.87	0.84	0.82	0.79	0.77	0.75	0.73
60.0	1.16	1.13	1.09	1.06	1.03	1.00	0.97	0.95	0.92	0.90	0.87	0.85	0.82	0.80	0.78	0.76	0.74	0.72	0.70	0.68	0.66
70.0	1.01	0.99	0.96	0.94	0.91	0.89	0.87	0.84	0.82	0.80	0.78	0.76	0.74	0.72	0.70	0.69	0.67	0.65	0.64	0.62	0.60
80.0	0.90	0.88	0.86	0.84	0.82	0.80	0.78	0.76	0.74	0.73	0.71	0.69	0.68	0.66	0.64	0.63	0.61	0.60	0.58	0.57	0.56
90.0	0.81	0.79	0.77	0.76	0.74	0.72	0.71	0.69	0.68	0.66	0.65	0.63	0.62	0.61	0.59	0.58	0.57	0.55	0.54	0.53	0.52
100.0	0.73	0.72	0.70	0.69	0.68	0.66	0.65	0.64	0.62	0.61	0.60	0.58	0.57	0.56	0.55	0.54	0.53	0.51	0.50	0.49	0.48
110.0	0.67	0.66	0.65	0.64	0.62	0.61	0.60	0.59	0.58	0.57	0.55	0.54	0.53	0.52	0.51	0.50	0.49	0.48	0.47	0.46	0.45
120.0	0.62	0.61	0.60	0.59	0.58	0.57	0.56	0.55	0.54	0.53	0.52	0.51	0.50	0.49	0.48	0.47	0.46	0.45	0.44	0.43	0.42
130.0	0.58	0.57	0.56	0.55	0.54	0.53	0.52	0.51	0.50	0.49	0.48	0.47	0.47	0.46	0.45	0.44	0.43	0.42	0.42	0.41	0.40
140.0	0.54	0.53	0.52	0.51	0.50	0.50	0.49	0.48	0.47	0.46	0.45	0.45	0.44	0.43	0.42	0.42	0.41	0.40	0.39	0.39	0.38
150.0	0.50	0.50	0.49	0.48	0.47	0.47	0.46	0.45	0.44	0.44	0.43	0.42	0.41	0.41	0.40	0.39	0.39	0.38	0.37	0.37	0.36
160.0	0.48	0.47	0.46	0.45	0.45	0.44	0.43	0.43	0.42	0.41	0.41	0.40	0.39	0.39	0.38	0.37	0.37	0.36	0.35	0.35	0.34
170.0	0.45	0.44	0.44	0.43	0.42	0.42	0.41	0.40	0.40	0.39	0.39	0.38	0.37	0.37	0.36	0.36	0.35	0.34	0.34	0.33	0.33
180.0	0.43	0.42	0.41	0.41	0.40	0.40	0.39	0.38	0.38	0.37	0.37	0.36	0.36	0.35	0.34	0.34	0.33	0.33	0.32	0.32	0.31
190.0	0.40	0.40	0.39	0.39	0.38	0.38	0.37	0.37	0.36	0.36	0.35	0.34	0.34	0.33	0.33	0.32	0.32	0.31	0.31	0.30	0.30
200.0	0.39	0.38	0.38	0.37	0.37	0.36	0.35	0.35	0.34	0.34	0.33	0.33	0.32	0.32	0.31	0.31	0.30	0.30	0.29	0.29	0.29

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 3.00
TBP - VOLUME FRACTION - 0.200
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	8.12	4.78	3.48	2.77	2.32	2.00	1.76	1.57	1.43	1.30	1.20	1.12	1.04	0.98	0.92	0.87	0.83	0.79	0.75	0.72	0.69
10.0	1.85	1.66	1.50	1.37	1.27	1.18	1.10	1.03	0.97	0.92	0.87	0.83	0.79	0.76	0.72	0.70	0.67	0.64	0.62	0.60	0.58
20.0	1.12	1.05	1.00	0.94	0.90	0.85	0.82	0.78	0.75	0.72	0.69	0.67	0.65	0.62	0.60	0.58	0.57	0.55	0.53	0.52	0.51
30.0	0.82	0.79	0.76	0.73	0.70	0.68	0.66	0.64	0.62	0.60	0.58	0.57	0.55	0.54	0.52	0.51	0.50	0.48	0.47	0.46	0.45
40.0	0.66	0.64	0.62	0.60	0.59	0.57	0.56	0.54	0.53	0.52	0.50	0.49	0.48	0.47	0.46	0.45	0.44	0.43	0.43	0.42	0.41
50.0	0.55	0.54	0.53	0.52	0.51	0.50	0.49	0.48	0.47	0.46	0.45	0.44	0.43	0.42	0.42	0.41	0.40	0.40	0.39	0.38	0.38
60.0	0.48	0.47	0.46	0.46	0.45	0.44	0.43	0.43	0.42	0.41	0.41	0.40	0.39	0.39	0.38	0.38	0.37	0.36	0.36	0.35	0.35
70.0	0.43	0.42	0.42	0.41	0.40	0.40	0.39	0.39	0.38	0.38	0.37	0.37	0.36	0.36	0.35	0.35	0.34	0.34	0.34	0.33	0.33
80.0	0.39	0.38	0.38	0.37	0.37	0.37	0.36	0.36	0.35	0.35	0.35	0.34	0.34	0.33	0.33	0.33	0.32	0.32	0.32	0.31	0.31
90.0	0.36	0.35	0.35	0.35	0.34	0.34	0.34	0.33	0.33	0.33	0.32	0.32	0.32	0.31	0.31	0.31	0.30	0.30	0.30	0.30	0.29
100.0	0.33	0.33	0.33	0.32	0.32	0.32	0.31	0.31	0.31	0.31	0.30	0.30	0.30	0.30	0.29	0.29	0.29	0.29	0.29	0.28	0.28
110.0	0.31	0.31	0.31	0.30	0.30	0.30	0.30	0.30	0.29	0.29	0.29	0.29	0.29	0.28	0.28	0.28	0.28	0.27	0.27	0.27	0.27
120.0	0.29	0.29	0.29	0.29	0.29	0.28	0.28	0.28	0.28	0.28	0.28	0.27	0.27	0.27	0.27	0.27	0.27	0.26	0.26	0.26	0.26
130.0	0.28	0.28	0.28	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.25	0.25	0.25
140.0	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.24	0.24
150.0	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
160.0	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.23	0.23	0.23	0.23	0.23	0.23
170.0	0.24	0.24	0.24	0.24	0.24	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.22
180.0	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
190.0	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
200.0	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.21	0.21

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 3.00
TBP - VOLUME FRACTION - 0.200
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	15.32	11.13	9.20	8.02	7.18	6.55	6.05	5.65	5.30	5.01	4.75	4.52	4.32	4.14	3.97	3.82	3.68	3.55	3.43	3.32	3.22
10.0	6.54	6.09	5.71	5.39	5.11	4.86	4.64	4.44	4.26	4.10	3.95	3.81	3.68	3.56	3.45	3.34	3.24	3.15	3.06	2.98	2.90
20.0	4.90	4.69	4.51	4.33	4.18	4.03	3.90	3.77	3.66	3.55	3.44	3.35	3.25	3.17	3.08	3.01	2.93	2.86	2.79	2.72	2.66
30.0	4.08	3.95	3.83	3.72	3.62	3.52	3.42	3.33	3.25	3.17	3.09	3.02	2.95	2.88	2.81	2.75	2.69	2.63	2.57	2.52	2.47
40.0	3.56	3.47	3.39	3.31	3.23	3.15	3.08	3.01	2.95	2.88	2.82	2.76	2.71	2.65	2.60	2.55	2.49	2.45	2.40	2.35	2.31
50.0	3.20	3.13	3.06	3.00	2.94	2.88	2.82	2.77	2.71	2.66	2.61	2.56	2.51	2.47	2.42	2.38	2.34	2.29	2.25	2.21	2.17
60.0	2.92	2.87	2.81	2.76	2.71	2.66	2.62	2.57	2.53	2.48	2.44	2.40	2.36	2.32	2.28	2.24	2.20	2.16	2.13	2.09	2.06
70.0	2.70	2.66	2.61	2.57	2.53	2.49	2.45	2.41	2.37	2.33	2.29	2.26	2.22	2.19	2.15	2.12	2.08	2.05	2.02	1.99	1.96
80.0	2.53	2.49	2.45	2.41	2.38	2.34	2.30	2.27	2.24	2.20	2.17	2.14	2.11	2.07	2.04	2.01	1.98	1.95	1.93	1.90	1.87
90.0	2.38	2.34	2.31	2.28	2.24	2.21	2.18	2.15	2.12	2.09	2.06	2.03	2.00	1.98	1.95	1.92	1.89	1.87	1.84	1.82	1.79
100.0	2.25	2.22	2.19	2.16	2.13	2.10	2.08	2.05	2.02	1.99	1.97	1.94	1.92	1.89	1.86	1.84	1.81	1.79	1.77	1.74	1.72
110.0	2.14	2.11	2.08	2.06	2.03	2.01	1.98	1.96	1.93	1.91	1.88	1.86	1.84	1.81	1.79	1.77	1.74	1.72	1.70	1.68	1.65
120.0	2.04	2.02	1.99	1.97	1.94	1.92	1.90	1.88	1.85	1.83	1.81	1.79	1.76	1.74	1.72	1.70	1.68	1.66	1.64	1.62	1.60
130.0	1.95	1.93	1.91	1.89	1.87	1.84	1.82	1.80	1.78	1.76	1.74	1.72	1.70	1.68	1.66	1.64	1.62	1.60	1.58	1.56	1.54
140.0	1.88	1.85	1.83	1.81	1.79	1.77	1.76	1.74	1.72	1.70	1.68	1.66	1.64	1.62	1.60	1.58	1.57	1.55	1.53	1.51	1.49
150.0	1.81	1.79	1.77	1.75	1.73	1.71	1.69	1.67	1.66	1.64	1.62	1.60	1.59	1.57	1.55	1.53	1.52	1.50	1.48	1.46	1.45
160.0	1.74	1.72	1.71	1.69	1.67	1.65	1.64	1.62	1.60	1.59	1.57	1.55	1.54	1.52	1.50	1.49	1.47	1.45	1.44	1.42	1.41
170.0	1.68	1.67	1.65	1.63	1.62	1.60	1.58	1.57	1.55	1.54	1.52	1.50	1.49	1.47	1.46	1.44	1.43	1.41	1.40	1.38	1.37
180.0	1.63	1.61	1.60	1.58	1.57	1.55	1.54	1.52	1.51	1.49	1.48	1.46	1.45	1.43	1.42	1.40	1.39	1.37	1.36	1.34	1.33
190.0	1.58	1.56	1.55	1.54	1.52	1.51	1.49	1.48	1.46	1.45	1.43	1.42	1.41	1.39	1.38	1.36	1.35	1.34	1.32	1.31	1.29
200.0	1.53	1.52	1.51	1.49	1.48	1.46	1.45	1.44	1.42	1.41	1.40	1.38	1.37	1.35	1.34	1.33	1.31	1.30	1.29	1.28	1.26

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 5.00
TBP - VOLUME FRACTION - 0.200
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	26.19	10.44	6.80	5.08	4.06	3.38	2.89	2.52	2.23	2.00	1.80	1.64	1.50	1.39	1.28	1.19	1.11	1.04	0.97	0.92	0.86
10.0	4.91	3.99	3.36	2.90	2.55	2.27	2.04	1.85	1.69	1.55	1.43	1.32	1.23	1.15	1.08	1.01	0.95	0.90	0.85	0.80	0.76
20.0	2.88	2.54	2.28	2.06	1.87	1.72	1.58	1.46	1.36	1.27	1.18	1.11	1.04	0.98	0.93	0.88	0.83	0.79	0.75	0.71	0.68
30.0	2.06	1.88	1.73	1.60	1.49	1.38	1.29	1.21	1.14	1.07	1.01	0.96	0.91	0.86	0.82	0.78	0.74	0.71	0.67	0.64	0.62
40.0	1.61	1.50	1.40	1.31	1.23	1.16	1.10	1.04	0.98	0.93	0.89	0.84	0.80	0.76	0.73	0.70	0.67	0.64	0.61	0.59	0.56
50.0	1.33	1.25	1.18	1.12	1.06	1.00	0.95	0.91	0.86	0.82	0.79	0.75	0.72	0.69	0.66	0.63	0.61	0.58	0.56	0.54	0.52
60.0	1.13	1.07	1.02	0.97	0.93	0.88	0.84	0.81	0.77	0.74	0.71	0.68	0.65	0.63	0.60	0.58	0.56	0.54	0.52	0.50	0.48
70.0	0.98	0.94	0.90	0.86	0.82	0.79	0.76	0.73	0.70	0.67	0.64	0.62	0.60	0.57	0.55	0.53	0.51	0.50	0.48	0.46	0.45
80.0	0.87	0.84	0.80	0.77	0.74	0.71	0.69	0.66	0.64	0.61	0.59	0.57	0.55	0.53	0.51	0.49	0.48	0.46	0.45	0.43	0.42
90.0	0.78	0.75	0.73	0.70	0.68	0.65	0.63	0.61	0.58	0.56	0.55	0.53	0.51	0.49	0.48	0.46	0.44	0.43	0.42	0.40	0.39
100.0	0.71	0.69	0.66	0.64	0.62	0.60	0.58	0.56	0.54	0.52	0.51	0.49	0.47	0.46	0.44	0.43	0.42	0.40	0.39	0.38	0.37
110.0	0.65	0.63	0.61	0.59	0.57	0.55	0.54	0.52	0.50	0.49	0.47	0.46	0.44	0.43	0.42	0.40	0.39	0.38	0.37	0.36	0.35
120.0	0.60	0.58	0.57	0.55	0.53	0.52	0.50	0.49	0.47	0.46	0.44	0.43	0.42	0.41	0.39	0.38	0.37	0.36	0.35	0.34	0.33
130.0	0.56	0.54	0.53	0.51	0.50	0.48	0.47	0.46	0.44	0.43	0.42	0.41	0.39	0.38	0.37	0.36	0.35	0.34	0.33	0.32	0.31
140.0	0.52	0.51	0.49	0.48	0.47	0.45	0.44	0.43	0.42	0.41	0.39	0.38	0.37	0.36	0.35	0.34	0.33	0.32	0.32	0.31	0.30
150.0	0.49	0.48	0.46	0.45	0.44	0.43	0.42	0.41	0.39	0.38	0.37	0.36	0.35	0.34	0.33	0.33	0.32	0.31	0.30	0.29	0.28
160.0	0.46	0.45	0.44	0.43	0.42	0.40	0.39	0.38	0.37	0.36	0.35	0.35	0.34	0.33	0.32	0.31	0.30	0.29	0.29	0.28	0.27
170.0	0.44	0.43	0.41	0.40	0.39	0.38	0.37	0.36	0.36	0.35	0.34	0.33	0.32	0.31	0.30	0.30	0.29	0.28	0.27	0.27	0.26
180.0	0.41	0.40	0.39	0.38	0.37	0.37	0.36	0.35	0.34	0.33	0.32	0.31	0.31	0.30	0.29	0.28	0.28	0.27	0.26	0.26	0.25
190.0	0.39	0.38	0.37	0.37	0.36	0.35	0.34	0.33	0.32	0.32	0.31	0.30	0.29	0.29	0.28	0.27	0.27	0.26	0.25	0.25	0.24
200.0	0.37	0.37	0.36	0.35	0.34	0.33	0.33	0.32	0.31	0.30	0.30	0.29	0.28	0.27	0.27	0.26	0.25	0.25	0.24	0.24	0.23

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 5.00
TBP - VOLUME FRACTION - 0.200
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	15.94	6.44	4.25	3.22	2.61	2.20	1.91	1.69	1.51	1.37	1.26	1.16	1.08	1.01	0.95	0.89	0.84	0.80	0.76	0.73	0.69
10.0	3.06	2.52	2.15	1.88	1.68	1.51	1.38	1.27	1.17	1.09	1.02	0.96	0.91	0.86	0.81	0.78	0.74	0.71	0.68	0.65	0.63
20.0	1.83	1.64	1.49	1.37	1.26	1.17	1.09	1.03	0.97	0.91	0.87	0.82	0.79	0.75	0.72	0.69	0.66	0.64	0.62	0.59	0.57
30.0	1.34	1.25	1.16	1.09	1.03	0.97	0.92	0.87	0.83	0.79	0.76	0.73	0.70	0.67	0.65	0.63	0.60	0.59	0.57	0.55	0.53
40.0	1.08	1.02	0.96	0.92	0.87	0.83	0.80	0.76	0.73	0.71	0.68	0.66	0.63	0.61	0.59	0.58	0.56	0.54	0.53	0.51	0.50
50.0	0.91	0.87	0.83	0.80	0.77	0.74	0.71	0.69	0.66	0.64	0.62	0.60	0.58	0.57	0.55	0.53	0.52	0.51	0.49	0.48	0.47
60.0	0.79	0.76	0.74	0.71	0.69	0.66	0.64	0.62	0.61	0.59	0.57	0.56	0.54	0.53	0.51	0.50	0.49	0.48	0.47	0.46	0.45
70.0	0.71	0.68	0.66	0.64	0.63	0.61	0.59	0.58	0.56	0.55	0.53	0.52	0.51	0.50	0.48	0.47	0.46	0.45	0.44	0.43	0.43
80.0	0.64	0.62	0.61	0.59	0.58	0.56	0.55	0.54	0.52	0.51	0.50	0.49	0.48	0.47	0.46	0.45	0.44	0.43	0.42	0.42	0.41
90.0	0.59	0.58	0.56	0.55	0.54	0.53	0.52	0.50	0.49	0.48	0.47	0.46	0.45	0.45	0.44	0.43	0.42	0.41	0.41	0.40	0.39
100.0	0.55	0.54	0.53	0.52	0.51	0.50	0.49	0.48	0.47	0.46	0.45	0.44	0.43	0.43	0.42	0.41	0.40	0.40	0.39	0.38	0.38
110.0	0.52	0.51	0.50	0.49	0.48	0.47	0.46	0.45	0.45	0.44	0.43	0.42	0.42	0.41	0.40	0.40	0.39	0.38	0.38	0.37	0.37
120.0	0.49	0.48	0.47	0.46	0.46	0.45	0.44	0.43	0.43	0.42	0.41	0.41	0.40	0.40	0.39	0.38	0.38	0.37	0.37	0.36	0.36
130.0	0.46	0.46	0.45	0.44	0.44	0.43	0.42	0.42	0.41	0.41	0.40	0.39	0.39	0.38	0.38	0.37	0.37	0.36	0.36	0.35	0.35
140.0	0.44	0.44	0.43	0.43	0.42	0.41	0.41	0.40	0.40	0.39	0.39	0.38	0.38	0.37	0.37	0.36	0.36	0.35	0.35	0.34	0.34
150.0	0.43	0.42	0.42	0.41	0.41	0.40	0.40	0.39	0.39	0.38	0.38	0.37	0.37	0.36	0.36	0.35	0.35	0.34	0.34	0.34	0.33
160.0	0.41	0.41	0.40	0.40	0.39	0.39	0.38	0.38	0.37	0.37	0.37	0.36	0.36	0.35	0.35	0.34	0.34	0.34	0.33	0.33	0.32
170.0	0.40	0.39	0.39	0.39	0.38	0.38	0.37	0.37	0.37	0.36	0.36	0.35	0.35	0.35	0.34	0.34	0.33	0.33	0.33	0.32	0.32
180.0	0.39	0.38	0.38	0.38	0.37	0.37	0.36	0.36	0.36	0.35	0.35	0.35	0.34	0.34	0.33	0.33	0.33	0.32	0.32	0.32	0.31
190.0	0.38	0.37	0.37	0.37	0.36	0.36	0.36	0.35	0.35	0.35	0.34	0.34	0.34	0.33	0.33	0.33	0.32	0.32	0.32	0.31	0.31
200.0	0.37	0.37	0.36	0.36	0.36	0.35	0.35	0.35	0.34	0.34	0.34	0.33	0.33	0.33	0.32	0.32	0.32	0.31	0.31	0.31	0.30

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 5.00
TBP - VOLUME FRACTION - 0.200
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	12.83	7.94	6.35	5.46	4.86	4.41	4.07	3.79	3.55	3.35	3.18	3.02	2.89	2.77	2.65	2.55	2.46	2.37	2.30	2.22	2.15
10.0	5.40	4.84	4.42	4.09	3.82	3.59	3.40	3.22	3.07	2.94	2.82	2.70	2.60	2.51	2.42	2.34	2.27	2.20	2.13	2.07	2.01
20.0	4.09	3.83	3.62	3.43	3.26	3.11	2.98	2.86	2.75	2.65	2.55	2.47	2.39	2.31	2.24	2.18	2.11	2.06	2.00	1.95	1.90
30.0	3.44	3.28	3.14	3.01	2.89	2.78	2.68	2.59	2.50	2.43	2.35	2.28	2.22	2.15	2.10	2.04	1.99	1.94	1.89	1.84	1.80
40.0	3.02	2.91	2.81	2.71	2.62	2.54	2.46	2.39	2.32	2.25	2.19	2.13	2.08	2.02	1.97	1.92	1.88	1.83	1.79	1.75	1.71
50.0	2.73	2.64	2.56	2.49	2.41	2.35	2.28	2.22	2.16	2.11	2.06	2.01	1.96	1.91	1.87	1.83	1.78	1.75	1.71	1.67	1.64
60.0	2.51	2.44	2.37	2.31	2.25	2.19	2.14	2.09	2.04	1.99	1.94	1.90	1.86	1.82	1.78	1.74	1.70	1.67	1.63	1.60	1.57
70.0	2.33	2.27	2.21	2.16	2.11	2.06	2.02	1.97	1.93	1.89	1.85	1.81	1.77	1.73	1.70	1.66	1.63	1.60	1.57	1.54	1.51
80.0	2.18	2.13	2.09	2.04	2.00	1.95	1.91	1.87	1.83	1.80	1.76	1.73	1.69	1.66	1.63	1.60	1.57	1.54	1.51	1.48	1.46
90.0	2.06	2.02	1.98	1.94	1.90	1.86	1.82	1.79	1.75	1.72	1.69	1.65	1.62	1.59	1.56	1.54	1.51	1.48	1.46	1.43	1.41
100.0	1.96	1.92	1.88	1.84	1.81	1.78	1.74	1.71	1.68	1.65	1.62	1.59	1.56	1.53	1.51	1.48	1.46	1.43	1.41	1.38	1.36
110.0	1.86	1.83	1.80	1.76	1.73	1.70	1.67	1.64	1.61	1.59	1.56	1.53	1.51	1.48	1.46	1.43	1.41	1.39	1.36	1.34	1.32
120.0	1.78	1.75	1.72	1.69	1.67	1.64	1.61	1.58	1.56	1.53	1.50	1.48	1.46	1.43	1.41	1.39	1.36	1.34	1.32	1.30	1.28
130.0	1.71	1.69	1.66	1.63	1.60	1.58	1.55	1.53	1.50	1.48	1.46	1.43	1.41	1.39	1.37	1.34	1.32	1.30	1.28	1.26	1.24
140.0	1.65	1.62	1.60	1.57	1.55	1.52	1.50	1.48	1.45	1.43	1.41	1.39	1.37	1.35	1.33	1.31	1.29	1.27	1.25	1.23	1.21
150.0	1.59	1.57	1.54	1.52	1.50	1.48	1.45	1.43	1.41	1.39	1.37	1.35	1.33	1.31	1.29	1.27	1.25	1.23	1.22	1.20	1.18
160.0	1.54	1.52	1.49	1.47	1.45	1.43	1.41	1.39	1.37	1.35	1.33	1.31	1.29	1.27	1.25	1.24	1.22	1.20	1.18	1.17	1.15
170.0	1.49	1.47	1.45	1.43	1.41	1.39	1.37	1.35	1.33	1.31	1.29	1.28	1.26	1.24	1.22	1.21	1.19	1.17	1.16	1.14	1.12
180.0	1.45	1.43	1.41	1.39	1.37	1.35	1.33	1.31	1.30	1.28	1.26	1.24	1.23	1.21	1.19	1.18	1.16	1.14	1.13	1.11	1.10
190.0	1.41	1.39	1.37	1.35	1.33	1.32	1.30	1.28	1.26	1.25	1.23	1.21	1.20	1.18	1.16	1.15	1.13	1.12	1.10	1.09	1.07
200.0	1.37	1.35	1.33	1.32	1.30	1.28	1.27	1.25	1.23	1.22	1.20	1.18	1.17	1.15	1.14	1.12	1.11	1.09	1.08	1.07	1.05

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 0.10
TBP - VOLUME FRACTION - 0.200
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	0.09	0.16	0.23	0.32	0.40	0.49	0.57	0.65	0.72	0.78	0.83	0.87	0.91	0.94	0.96	0.97	0.98	0.99	0.99	0.99	0.98
10.0	0.23	0.30	0.38	0.46	0.53	0.60	0.66	0.71	0.76	0.80	0.83	0.86	0.88	0.89	0.90	0.91	0.91	0.91	0.91	0.90	0.90
20.0	0.36	0.43	0.50	0.56	0.61	0.66	0.70	0.74	0.77	0.79	0.81	0.82	0.83	0.84	0.84	0.84	0.84	0.84	0.84	0.83	0.82
30.0	0.47	0.53	0.57	0.62	0.65	0.69	0.71	0.73	0.75	0.76	0.77	0.78	0.79	0.79	0.79	0.79	0.78	0.78	0.77	0.77	0.76
40.0	0.54	0.58	0.61	0.64	0.67	0.68	0.70	0.71	0.72	0.73	0.74	0.74	0.74	0.74	0.74	0.73	0.73	0.72	0.72	0.71	0.70
50.0	0.58	0.60	0.62	0.64	0.66	0.67	0.68	0.69	0.69	0.69	0.70	0.70	0.70	0.69	0.69	0.69	0.68	0.67	0.67	0.66	0.65
60.0	0.59	0.61	0.62	0.63	0.64	0.65	0.65	0.66	0.66	0.66	0.66	0.66	0.65	0.65	0.65	0.64	0.64	0.63	0.63	0.62	0.61
70.0	0.59	0.60	0.61	0.61	0.62	0.62	0.62	0.63	0.63	0.62	0.62	0.62	0.62	0.61	0.61	0.60	0.60	0.59	0.59	0.58	0.57
80.0	0.58	0.58	0.59	0.59	0.59	0.60	0.60	0.60	0.59	0.59	0.59	0.59	0.58	0.58	0.57	0.57	0.56	0.56	0.55	0.55	0.54
90.0	0.56	0.56	0.57	0.57	0.57	0.57	0.57	0.57	0.56	0.56	0.56	0.56	0.55	0.55	0.54	0.54	0.53	0.53	0.52	0.51	0.51
100.0	0.54	0.54	0.54	0.55	0.54	0.54	0.54	0.54	0.54	0.53	0.53	0.53	0.52	0.52	0.51	0.51	0.50	0.50	0.49	0.49	0.48
110.0	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.51	0.51	0.51	0.50	0.50	0.50	0.49	0.49	0.48	0.48	0.47	0.47	0.46	0.46
120.0	0.50	0.50	0.50	0.50	0.50	0.50	0.49	0.49	0.49	0.48	0.48	0.48	0.47	0.47	0.46	0.46	0.45	0.45	0.44	0.44	0.43
130.0	0.48	0.48	0.48	0.48	0.48	0.47	0.47	0.47	0.46	0.46	0.46	0.45	0.45	0.44	0.44	0.44	0.43	0.43	0.42	0.42	0.41
140.0	0.46	0.46	0.46	0.46	0.46	0.45	0.45	0.45	0.44	0.44	0.44	0.43	0.43	0.42	0.42	0.42	0.41	0.41	0.40	0.40	0.39
150.0	0.45	0.44	0.44	0.44	0.44	0.43	0.43	0.43	0.42	0.42	0.42	0.41	0.41	0.41	0.40	0.40	0.39	0.39	0.38	0.38	0.38
160.0	0.43	0.43	0.42	0.42	0.42	0.42	0.41	0.41	0.41	0.40	0.40	0.40	0.39	0.39	0.38	0.38	0.38	0.37	0.37	0.36	0.36
170.0	0.41	0.41	0.41	0.40	0.40	0.40	0.40	0.39	0.39	0.39	0.38	0.38	0.38	0.37	0.37	0.36	0.36	0.36	0.35	0.35	0.34
180.0	0.40	0.39	0.39	0.39	0.39	0.38	0.38	0.38	0.37	0.37	0.37	0.36	0.36	0.36	0.35	0.35	0.35	0.34	0.34	0.33	0.33
190.0	0.38	0.38	0.38	0.37	0.37	0.37	0.37	0.36	0.36	0.36	0.35	0.35	0.35	0.34	0.34	0.34	0.33	0.33	0.33	0.32	0.32
200.0	0.37	0.37	0.36	0.36	0.36	0.35	0.35	0.35	0.35	0.34	0.34	0.34	0.33	0.33	0.33	0.32	0.32	0.32	0.31	0.31	0.31

CAUTION --- POSSIBLE 2% PU POLYMER FORMATION IN 1.00 HOURS FOR PLUTONIUM CONCENTRATIONS IN EXCESS OF 5.28 G/L.

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 0.10
TBP - VOLUME FRACTION - 0.200
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	0.04	0.07	0.10	0.14	0.18	0.22	0.25	0.29	0.32	0.35	0.37	0.39	0.41	0.42	0.43	0.44	0.44	0.45	0.45	0.45	0.45
10.0	0.10	0.13	0.17	0.20	0.24	0.27	0.29	0.32	0.34	0.36	0.37	0.38	0.39	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41
20.0	0.16	0.19	0.22	0.25	0.27	0.29	0.31	0.33	0.34	0.35	0.36	0.37	0.38	0.38	0.38	0.38	0.39	0.39	0.38	0.38	0.38
30.0	0.21	0.23	0.25	0.27	0.29	0.31	0.32	0.33	0.34	0.34	0.35	0.35	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.35
40.0	0.24	0.26	0.27	0.29	0.30	0.31	0.31	0.32	0.33	0.33	0.33	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.33	0.33
50.0	0.26	0.27	0.28	0.29	0.30	0.30	0.31	0.31	0.31	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.31	0.31
60.0	0.26	0.27	0.28	0.28	0.29	0.29	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.29
70.0	0.26	0.27	0.27	0.28	0.28	0.28	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.28	0.28	0.28	0.28	0.28
80.0	0.26	0.26	0.27	0.27	0.27	0.27	0.27	0.27	0.28	0.28	0.28	0.28	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
90.0	0.25	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.25
100.0	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.24	0.24
110.0	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.23	0.23
120.0	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.22
130.0	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
140.0	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.21	0.21
150.0	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.20	0.20
160.0	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
170.0	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.19
180.0	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
190.0	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18
200.0	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18

CAUTION --- POSSIBLE 2% PU POLYMER FORMATION IN 1.00 HOURS FOR PLUTONIUM CONCENTRATIONS IN EXCESS OF 5.28 G/L.

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 0.10
TBP - VOLUME FRACTION - 0.200
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	2.37	3.15	3.85	4.49	5.05	5.53	5.92	6.23	6.46	6.62	6.71	6.75	6.75	6.70	6.63	6.54	6.42	6.30	6.16	6.02	5.87
10.0	3.76	4.36	4.87	5.30	5.64	5.91	6.11	6.24	6.32	6.36	6.35	6.31	6.25	6.17	6.07	5.96	5.84	5.71	5.58	5.45	5.31
20.0	4.70	5.09	5.40	5.63	5.81	5.93	5.99	6.02	6.02	5.99	5.93	5.86	5.77	5.67	5.56	5.45	5.33	5.21	5.09	4.97	4.85
30.0	5.18	5.39	5.55	5.65	5.71	5.74	5.73	5.70	5.65	5.59	5.51	5.42	5.32	5.22	5.11	5.00	4.89	4.78	4.67	4.56	4.45
40.0	5.32	5.41	5.46	5.49	5.48	5.45	5.41	5.35	5.28	5.20	5.11	5.02	4.92	4.82	4.72	4.62	4.51	4.41	4.31	4.21	4.11
50.0	5.25	5.26	5.26	5.23	5.19	5.14	5.07	5.00	4.92	4.83	4.74	4.65	4.56	4.46	4.37	4.27	4.18	4.09	4.00	3.91	3.82
60.0	5.06	5.04	5.00	4.95	4.89	4.82	4.75	4.67	4.58	4.50	4.41	4.32	4.24	4.15	4.06	3.97	3.89	3.81	3.72	3.64	3.57
70.0	4.83	4.78	4.72	4.66	4.59	4.52	4.44	4.36	4.28	4.20	4.11	4.03	3.95	3.87	3.79	3.71	3.63	3.56	3.48	3.41	3.34
80.0	4.57	4.51	4.45	4.38	4.31	4.23	4.16	4.08	4.00	3.92	3.85	3.77	3.70	3.62	3.55	3.48	3.41	3.34	3.27	3.21	3.14
90.0	4.32	4.25	4.19	4.12	4.04	3.97	3.90	3.83	3.75	3.68	3.61	3.54	3.47	3.40	3.33	3.27	3.20	3.14	3.08	3.02	2.97
100.0	4.07	4.01	3.94	3.87	3.80	3.73	3.66	3.59	3.53	3.46	3.39	3.33	3.26	3.20	3.14	3.08	3.03	2.97	2.92	2.86	2.81
110.0	3.84	3.78	3.71	3.65	3.58	3.52	3.45	3.39	3.32	3.26	3.20	3.14	3.08	3.03	2.97	2.92	2.87	2.82	2.77	2.72	2.67
120.0	3.63	3.57	3.50	3.44	3.38	3.32	3.26	3.20	3.14	3.08	3.03	2.97	2.92	2.87	2.82	2.77	2.72	2.68	2.63	2.59	2.55
130.0	3.43	3.37	3.31	3.25	3.19	3.14	3.08	3.03	2.97	2.92	2.87	2.82	2.77	2.73	2.68	2.64	2.59	2.55	2.51	2.47	2.44
140.0	3.25	3.19	3.13	3.08	3.03	2.97	2.92	2.87	2.82	2.78	2.73	2.69	2.64	2.60	2.56	2.52	2.48	2.44	2.40	2.37	2.33
150.0	3.08	3.03	2.97	2.92	2.87	2.83	2.78	2.73	2.69	2.65	2.60	2.56	2.52	2.48	2.45	2.41	2.37	2.34	2.31	2.27	2.24
160.0	2.92	2.88	2.83	2.78	2.74	2.69	2.65	2.61	2.57	2.53	2.49	2.45	2.41	2.38	2.34	2.31	2.28	2.25	2.22	2.19	2.16
170.0	2.78	2.74	2.70	2.65	2.61	2.57	2.53	2.49	2.46	2.42	2.38	2.35	2.32	2.28	2.25	2.22	2.19	2.16	2.14	2.11	2.08
180.0	2.66	2.61	2.57	2.54	2.50	2.46	2.42	2.39	2.35	2.32	2.29	2.26	2.23	2.20	2.17	2.14	2.11	2.09	2.06	2.04	2.01
190.0	2.54	2.50	2.46	2.43	2.39	2.36	2.33	2.29	2.26	2.23	2.20	2.17	2.15	2.12	2.09	2.07	2.04	2.02	1.99	1.97	1.95
200.0	2.43	2.40	2.36	2.33	2.30	2.27	2.24	2.21	2.18	2.15	2.12	2.10	2.07	2.05	2.02	2.00	1.98	1.95	1.93	1.91	1.89

CAUTION --- POSSIBLE 2% PU POLYMER FORMATION IN 1.00 HOURS FOR PLUTONIUM CONCENTRATIONS IN EXCESS OF 5.28 G/L.

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 0.30
TBP - VOLUME FRACTION - 0.200
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	0.50	0.60	0.69	0.78	0.86	0.93	0.99	1.04	1.08	1.11	1.13	1.14	1.15	1.15	1.15	1.14	1.13	1.12	1.11	1.09	1.07
10.0	0.64	0.71	0.78	0.84	0.89	0.93	0.97	0.99	1.01	1.03	1.04	1.04	1.04	1.04	1.03	1.02	1.01	1.00	0.99	0.97	0.96
20.0	0.72	0.77	0.81	0.85	0.88	0.90	0.92	0.94	0.95	0.95	0.95	0.95	0.95	0.94	0.94	0.93	0.92	0.91	0.89	0.88	0.87
30.0	0.75	0.78	0.81	0.83	0.85	0.86	0.87	0.88	0.88	0.88	0.88	0.87	0.87	0.86	0.85	0.85	0.84	0.83	0.81	0.80	0.79
40.0	0.75	0.77	0.78	0.80	0.81	0.81	0.82	0.82	0.82	0.82	0.81	0.81	0.80	0.79	0.79	0.78	0.77	0.76	0.75	0.74	0.73
50.0	0.73	0.74	0.75	0.76	0.76	0.76	0.77	0.76	0.76	0.76	0.75	0.75	0.74	0.73	0.73	0.72	0.71	0.70	0.69	0.68	0.67
60.0	0.70	0.71	0.72	0.72	0.72	0.72	0.72	0.71	0.71	0.71	0.70	0.70	0.69	0.68	0.67	0.67	0.66	0.65	0.64	0.63	0.62
70.0	0.67	0.68	0.68	0.68	0.68	0.68	0.67	0.67	0.67	0.66	0.66	0.65	0.64	0.64	0.63	0.62	0.61	0.61	0.60	0.59	0.58
80.0	0.64	0.64	0.64	0.64	0.64	0.64	0.63	0.63	0.63	0.62	0.61	0.61	0.60	0.60	0.59	0.58	0.58	0.57	0.56	0.55	0.55
90.0	0.61	0.61	0.61	0.61	0.61	0.60	0.60	0.59	0.59	0.58	0.58	0.57	0.57	0.56	0.55	0.55	0.54	0.53	0.53	0.52	0.51
100.0	0.58	0.58	0.58	0.58	0.57	0.57	0.57	0.56	0.56	0.55	0.55	0.54	0.53	0.53	0.52	0.52	0.51	0.50	0.50	0.49	0.48
110.0	0.55	0.55	0.55	0.55	0.54	0.54	0.53	0.53	0.53	0.52	0.52	0.51	0.50	0.50	0.49	0.49	0.48	0.48	0.47	0.46	0.46
120.0	0.53	0.53	0.52	0.52	0.52	0.51	0.51	0.50	0.50	0.49	0.49	0.48	0.48	0.47	0.47	0.46	0.46	0.45	0.45	0.44	0.43
130.0	0.50	0.50	0.50	0.49	0.49	0.49	0.48	0.48	0.47	0.47	0.46	0.46	0.45	0.45	0.44	0.44	0.43	0.43	0.42	0.42	0.41
140.0	0.48	0.48	0.47	0.47	0.47	0.46	0.46	0.46	0.45	0.45	0.44	0.44	0.43	0.43	0.42	0.42	0.41	0.41	0.40	0.40	0.39
150.0	0.46	0.46	0.45	0.45	0.45	0.44	0.44	0.43	0.43	0.43	0.42	0.42	0.41	0.41	0.40	0.40	0.39	0.39	0.38	0.38	0.37
160.0	0.44	0.44	0.43	0.43	0.43	0.42	0.42	0.41	0.41	0.41	0.40	0.40	0.39	0.39	0.39	0.38	0.38	0.37	0.37	0.36	0.36
170.0	0.42	0.42	0.41	0.41	0.41	0.40	0.40	0.40	0.39	0.39	0.38	0.38	0.38	0.37	0.37	0.36	0.36	0.36	0.35	0.35	0.34
180.0	0.40	0.40	0.40	0.39	0.39	0.39	0.38	0.38	0.38	0.37	0.37	0.36	0.36	0.36	0.35	0.35	0.35	0.34	0.34	0.33	0.33
190.0	0.39	0.38	0.38	0.38	0.37	0.37	0.37	0.36	0.36	0.36	0.35	0.35	0.35	0.34	0.34	0.34	0.33	0.33	0.32	0.32	0.32
200.0	0.37	0.37	0.37	0.36	0.36	0.36	0.35	0.35	0.35	0.34	0.34	0.34	0.33	0.33	0.33	0.32	0.32	0.31	0.31	0.31	0.30

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 0.30
TBP - VOLUME FRACTION - 0.200
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	0.22	0.26	0.31	0.35	0.38	0.41	0.44	0.46	0.48	0.50	0.51	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.51	0.51	0.50
10.0	0.28	0.32	0.35	0.37	0.40	0.42	0.43	0.45	0.46	0.46	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.46	0.46	0.45	0.45
20.0	0.32	0.34	0.36	0.38	0.39	0.41	0.41	0.42	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.42	0.42	0.41	0.41
30.0	0.33	0.35	0.36	0.37	0.38	0.39	0.39	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.39	0.39	0.39	0.39	0.38	0.38
40.0	0.33	0.34	0.35	0.36	0.36	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.36	0.36	0.36	0.35	0.35
50.0	0.33	0.33	0.34	0.34	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.34	0.34	0.34	0.34	0.33	0.33	0.33
60.0	0.32	0.32	0.32	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.32	0.32	0.32	0.32	0.32	0.31	0.31	0.31
70.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.30	0.30	0.30	0.30	0.30	0.29	0.29
80.0	0.29	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.28	0.28	0.28	0.28	0.28
90.0	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.26
100.0	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.25	0.25
110.0	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.24	0.24	0.24
120.0	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.23	0.23
130.0	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.22
140.0	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
150.0	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.21
160.0	0.22	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
170.0	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
180.0	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
190.0	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
200.0	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 0.30
TBP - VOLUME FRACTION - 0.200
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	5.66	6.17	6.59	6.92	7.16	7.32	7.42	7.44	7.42	7.36	7.26	7.13	6.99	6.83	6.66	6.49	6.31	6.14	5.96	5.78	5.61
10.0	6.20	6.48	6.68	6.82	6.89	6.92	6.90	6.84	6.76	6.66	6.54	6.40	6.26	6.11	5.96	5.80	5.65	5.49	5.34	5.19	5.05
20.0	6.29	6.41	6.47	6.49	6.47	6.42	6.35	6.26	6.16	6.04	5.92	5.79	5.65	5.51	5.38	5.24	5.10	4.97	4.84	4.71	4.59
30.0	6.11	6.13	6.11	6.07	6.01	5.93	5.84	5.73	5.62	5.51	5.39	5.27	5.14	5.02	4.90	4.77	4.66	4.54	4.42	4.31	4.21
40.0	5.81	5.77	5.72	5.64	5.56	5.47	5.37	5.26	5.16	5.05	4.93	4.82	4.71	4.60	4.49	4.38	4.28	4.17	4.07	3.98	3.88
50.0	5.46	5.39	5.32	5.24	5.15	5.05	4.95	4.85	4.75	4.65	4.54	4.44	4.34	4.24	4.14	4.05	3.96	3.86	3.78	3.69	3.61
60.0	5.11	5.03	4.95	4.86	4.77	4.68	4.58	4.49	4.39	4.30	4.20	4.11	4.02	3.93	3.85	3.76	3.68	3.60	3.52	3.44	3.37
70.0	4.77	4.69	4.60	4.52	4.43	4.34	4.26	4.17	4.08	3.99	3.91	3.83	3.74	3.66	3.59	3.51	3.44	3.37	3.30	3.23	3.16
80.0	4.46	4.38	4.29	4.21	4.13	4.05	3.97	3.88	3.80	3.73	3.65	3.57	3.50	3.43	3.36	3.29	3.23	3.16	3.10	3.04	2.98
90.0	4.17	4.09	4.01	3.94	3.86	3.78	3.71	3.63	3.56	3.49	3.42	3.35	3.29	3.22	3.16	3.10	3.04	2.98	2.93	2.87	2.82
100.0	3.91	3.83	3.76	3.69	3.62	3.55	3.48	3.41	3.35	3.28	3.22	3.16	3.10	3.04	2.98	2.93	2.88	2.83	2.78	2.73	2.68
110.0	3.67	3.60	3.53	3.47	3.40	3.34	3.28	3.21	3.15	3.10	3.04	2.98	2.93	2.88	2.83	2.78	2.73	2.68	2.64	2.60	2.55
120.0	3.46	3.39	3.33	3.27	3.21	3.15	3.09	3.04	2.98	2.93	2.88	2.83	2.78	2.73	2.69	2.64	2.60	2.56	2.52	2.48	2.44
130.0	3.26	3.20	3.15	3.09	3.04	2.98	2.93	2.88	2.83	2.78	2.74	2.69	2.65	2.60	2.56	2.52	2.48	2.45	2.41	2.37	2.34
140.0	3.09	3.03	2.98	2.93	2.88	2.83	2.78	2.74	2.69	2.65	2.61	2.57	2.53	2.49	2.45	2.41	2.38	2.34	2.31	2.28	2.25
150.0	2.93	2.88	2.83	2.78	2.74	2.69	2.65	2.61	2.57	2.53	2.49	2.45	2.42	2.38	2.35	2.32	2.28	2.25	2.22	2.19	2.16
160.0	2.79	2.74	2.70	2.65	2.61	2.57	2.53	2.49	2.46	2.42	2.39	2.35	2.32	2.29	2.26	2.23	2.20	2.17	2.14	2.11	2.09
170.0	2.66	2.61	2.57	2.54	2.50	2.46	2.42	2.39	2.36	2.32	2.29	2.26	2.23	2.20	2.17	2.15	2.12	2.09	2.07	2.04	2.02
180.0	2.54	2.50	2.46	2.43	2.39	2.36	2.33	2.30	2.26	2.23	2.21	2.18	2.15	2.12	2.10	2.07	2.05	2.02	2.00	1.97	1.95
190.0	2.43	2.40	2.36	2.33	2.30	2.27	2.24	2.21	2.18	2.15	2.13	2.10	2.08	2.05	2.03	2.00	1.98	1.96	1.93	1.91	1.89
200.0	2.33	2.30	2.27	2.24	2.21	2.18	2.16	2.13	2.10	2.08	2.05	2.03	2.01	1.98	1.96	1.94	1.92	1.90	1.88	1.86	1.84

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 0.50
TBP - VOLUME FRACTION - 0.200
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	1.07	1.16	1.23	1.29	1.33	1.36	1.38	1.39	1.39	1.39	1.38	1.36	1.34	1.32	1.30	1.27	1.25	1.22	1.19	1.16	1.14
10.0	1.08	1.12	1.16	1.19	1.21	1.22	1.23	1.23	1.22	1.21	1.20	1.19	1.17	1.15	1.13	1.11	1.09	1.07	1.05	1.02	1.00
20.0	1.03	1.06	1.08	1.09	1.10	1.10	1.10	1.09	1.09	1.08	1.06	1.05	1.04	1.02	1.00	0.99	0.97	0.95	0.93	0.91	0.90
30.0	0.97	0.99	0.99	1.00	1.00	1.00	0.99	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.90	0.89	0.87	0.86	0.84	0.83	0.81
40.0	0.91	0.92	0.92	0.92	0.92	0.91	0.91	0.90	0.89	0.88	0.87	0.86	0.85	0.83	0.82	0.81	0.79	0.78	0.77	0.75	0.74
50.0	0.85	0.85	0.85	0.85	0.84	0.84	0.83	0.82	0.81	0.81	0.80	0.79	0.77	0.76	0.75	0.74	0.73	0.72	0.70	0.69	0.68
60.0	0.79	0.79	0.79	0.79	0.78	0.77	0.77	0.76	0.75	0.74	0.73	0.72	0.71	0.70	0.69	0.68	0.67	0.66	0.65	0.64	0.63
70.0	0.74	0.74	0.74	0.73	0.72	0.72	0.71	0.70	0.70	0.69	0.68	0.67	0.66	0.65	0.64	0.63	0.62	0.61	0.61	0.60	0.59
80.0	0.70	0.69	0.69	0.68	0.68	0.67	0.66	0.66	0.65	0.64	0.63	0.63	0.62	0.61	0.60	0.59	0.58	0.57	0.57	0.56	0.55
90.0	0.65	0.65	0.64	0.64	0.63	0.63	0.62	0.61	0.61	0.60	0.59	0.58	0.58	0.57	0.56	0.55	0.55	0.54	0.53	0.52	0.51
100.0	0.61	0.61	0.61	0.60	0.59	0.59	0.58	0.58	0.57	0.56	0.56	0.55	0.54	0.53	0.53	0.52	0.51	0.51	0.50	0.49	0.48
110.0	0.58	0.58	0.57	0.57	0.56	0.55	0.55	0.54	0.54	0.53	0.52	0.52	0.51	0.50	0.50	0.49	0.48	0.48	0.47	0.46	0.46
120.0	0.55	0.54	0.54	0.53	0.53	0.52	0.52	0.51	0.51	0.50	0.49	0.49	0.48	0.48	0.47	0.46	0.46	0.45	0.44	0.44	0.43
130.0	0.52	0.52	0.51	0.51	0.50	0.50	0.49	0.49	0.48	0.47	0.47	0.46	0.46	0.45	0.45	0.44	0.43	0.43	0.42	0.42	0.41
140.0	0.49	0.49	0.49	0.48	0.48	0.47	0.47	0.46	0.46	0.45	0.45	0.44	0.43	0.43	0.42	0.42	0.41	0.41	0.40	0.40	0.39
150.0	0.47	0.47	0.46	0.46	0.45	0.45	0.44	0.44	0.43	0.43	0.42	0.42	0.41	0.41	0.40	0.40	0.39	0.39	0.38	0.38	0.37
160.0	0.45	0.44	0.44	0.44	0.43	0.43	0.42	0.42	0.41	0.41	0.40	0.40	0.39	0.39	0.38	0.38	0.38	0.37	0.37	0.36	0.36
170.0	0.43	0.42	0.42	0.42	0.41	0.41	0.40	0.40	0.39	0.39	0.39	0.38	0.38	0.37	0.37	0.36	0.36	0.35	0.35	0.34	0.34
180.0	0.41	0.41	0.40	0.40	0.39	0.39	0.39	0.38	0.38	0.37	0.37	0.37	0.36	0.36	0.35	0.35	0.34	0.34	0.33	0.33	0.33
190.0	0.39	0.39	0.39	0.38	0.38	0.37	0.37	0.37	0.36	0.36	0.35	0.35	0.35	0.34	0.34	0.33	0.33	0.33	0.32	0.32	0.31
200.0	0.38	0.37	0.37	0.37	0.36	0.36	0.35	0.35	0.35	0.34	0.34	0.34	0.33	0.33	0.32	0.32	0.32	0.31	0.31	0.30	0.30

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 0.50
TBP - VOLUME FRACTION - 0.200
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	0.48	0.52	0.55	0.58	0.60	0.61	0.62	0.63	0.63	0.63	0.63	0.62	0.62	0.61	0.60	0.59	0.58	0.57	0.56	0.55	0.54
10.0	0.48	0.50	0.52	0.53	0.54	0.55	0.56	0.56	0.56	0.55	0.55	0.55	0.54	0.53	0.53	0.52	0.51	0.50	0.50	0.49	0.48
20.0	0.46	0.48	0.49	0.49	0.50	0.50	0.50	0.50	0.50	0.50	0.49	0.49	0.48	0.48	0.47	0.47	0.46	0.45	0.45	0.44	0.43
30.0	0.44	0.45	0.45	0.45	0.46	0.46	0.46	0.45	0.45	0.45	0.45	0.44	0.44	0.43	0.43	0.42	0.42	0.41	0.41	0.40	0.40
40.0	0.41	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.41	0.41	0.41	0.41	0.40	0.40	0.39	0.39	0.38	0.38	0.38	0.37	0.37
50.0	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.38	0.38	0.38	0.37	0.37	0.37	0.36	0.36	0.36	0.35	0.35	0.35	0.34
60.0	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.35	0.35	0.35	0.35	0.34	0.34	0.34	0.33	0.33	0.33	0.32	0.32
70.0	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.33	0.33	0.33	0.33	0.32	0.32	0.32	0.32	0.31	0.31	0.31	0.31	0.30
80.0	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.31	0.31	0.31	0.31	0.31	0.30	0.30	0.30	0.30	0.29	0.29	0.29	0.29
90.0	0.31	0.31	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.29	0.29	0.29	0.29	0.29	0.28	0.28	0.28	0.28	0.27	0.27
100.0	0.29	0.29	0.29	0.29	0.29	0.29	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.27	0.27	0.27	0.27	0.27	0.26	0.26	0.26
110.0	0.28	0.28	0.28	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.25	0.25
120.0	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.24	0.24	0.24	0.24
130.0	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.23	0.23	0.23
140.0	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.22
150.0	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
160.0	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.21	0.21	0.21	0.21
170.0	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
180.0	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.20
190.0	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
200.0	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.19	0.19	0.19

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 0.50
TBP - VOLUME FRACTION - 0.200
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	8.16	8.35	8.44	8.46	8.41	8.30	8.16	7.99	7.79	7.58	7.37	7.14	6.92	6.70	6.48	6.27	6.06	5.86	5.67	5.49	5.31
10.0	7.68	7.69	7.65	7.57	7.46	7.32	7.17	7.00	6.82	6.63	6.45	6.26	6.08	5.90	5.72	5.55	5.38	5.22	5.06	4.91	4.76
20.0	7.07	7.01	6.91	6.80	6.67	6.53	6.38	6.22	6.06	5.90	5.74	5.58	5.43	5.27	5.12	4.98	4.84	4.70	4.57	4.45	4.33
30.0	6.47	6.37	6.26	6.14	6.01	5.87	5.73	5.59	5.45	5.31	5.17	5.04	4.90	4.77	4.65	4.52	4.40	4.29	4.18	4.07	3.97
40.0	5.92	5.81	5.70	5.58	5.45	5.33	5.20	5.08	4.95	4.83	4.71	4.59	4.47	4.36	4.25	4.15	4.04	3.95	3.85	3.76	3.67
50.0	5.43	5.32	5.21	5.10	4.98	4.87	4.76	4.64	4.53	4.43	4.32	4.22	4.12	4.02	3.92	3.83	3.74	3.66	3.57	3.49	3.42
60.0	4.99	4.89	4.79	4.68	4.58	4.48	4.38	4.28	4.18	4.08	3.99	3.90	3.81	3.72	3.64	3.56	3.48	3.41	3.34	3.27	3.20
70.0	4.61	4.52	4.42	4.33	4.23	4.14	4.05	3.96	3.87	3.79	3.71	3.63	3.55	3.47	3.40	3.33	3.26	3.19	3.13	3.07	3.01
80.0	4.28	4.19	4.10	4.02	3.93	3.85	3.77	3.69	3.61	3.54	3.46	3.39	3.32	3.26	3.19	3.13	3.07	3.01	2.95	2.90	2.84
90.0	3.99	3.90	3.83	3.75	3.67	3.60	3.52	3.45	3.38	3.31	3.25	3.19	3.12	3.06	3.01	2.95	2.90	2.85	2.79	2.75	2.70
100.0	3.73	3.65	3.58	3.51	3.44	3.37	3.31	3.24	3.18	3.12	3.06	3.01	2.95	2.90	2.85	2.80	2.75	2.70	2.66	2.61	2.57
110.0	3.49	3.43	3.36	3.30	3.24	3.18	3.12	3.06	3.00	2.95	2.90	2.85	2.80	2.75	2.70	2.66	2.61	2.57	2.53	2.49	2.45
120.0	3.29	3.23	3.17	3.11	3.06	3.00	2.95	2.90	2.85	2.80	2.75	2.70	2.66	2.62	2.58	2.53	2.50	2.46	2.42	2.38	2.35
130.0	3.11	3.05	3.00	2.95	2.89	2.84	2.80	2.75	2.71	2.66	2.62	2.58	2.54	2.50	2.46	2.42	2.39	2.35	2.32	2.29	2.26
140.0	2.94	2.89	2.84	2.80	2.75	2.71	2.66	2.62	2.58	2.54	2.50	2.46	2.43	2.39	2.36	2.33	2.29	2.26	2.23	2.20	2.17
150.0	2.80	2.75	2.71	2.66	2.62	2.58	2.54	2.50	2.47	2.43	2.40	2.36	2.33	2.30	2.27	2.24	2.21	2.18	2.15	2.12	2.09
160.0	2.66	2.62	2.58	2.54	2.51	2.47	2.43	2.40	2.37	2.33	2.30	2.27	2.24	2.21	2.18	2.15	2.13	2.10	2.07	2.05	2.02
170.0	2.55	2.51	2.47	2.44	2.40	2.37	2.34	2.30	2.27	2.24	2.21	2.19	2.16	2.13	2.10	2.08	2.05	2.03	2.00	1.98	1.96
180.0	2.44	2.40	2.37	2.34	2.31	2.28	2.25	2.22	2.19	2.16	2.13	2.11	2.08	2.06	2.03	2.01	1.99	1.96	1.94	1.92	1.90
190.0	2.34	2.31	2.28	2.25	2.22	2.19	2.16	2.14	2.11	2.09	2.06	2.04	2.01	1.99	1.97	1.95	1.92	1.90	1.88	1.86	1.84
200.0	2.25	2.22	2.19	2.17	2.14	2.12	2.09	2.07	2.04	2.02	2.00	1.97	1.95	1.93	1.91	1.89	1.87	1.85	1.83	1.81	1.79

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 1.00
TBP - VOLUME FRACTION - 0.200
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	3.05	2.87	2.71	2.56	2.42	2.30	2.19	2.08	1.98	1.89	1.81	1.73	1.66	1.59	1.52	1.46	1.40	1.35	1.30	1.25	1.20
10.0	2.13	2.05	1.98	1.90	1.83	1.77	1.70	1.64	1.58	1.52	1.47	1.42	1.37	1.32	1.28	1.23	1.19	1.15	1.11	1.08	1.04
20.0	1.68	1.63	1.58	1.54	1.49	1.45	1.40	1.36	1.32	1.28	1.24	1.21	1.17	1.13	1.10	1.07	1.04	1.01	0.98	0.95	0.92
30.0	1.40	1.36	1.33	1.30	1.27	1.23	1.20	1.17	1.14	1.11	1.08	1.05	1.02	1.00	0.97	0.94	0.92	0.89	0.87	0.85	0.82
40.0	1.20	1.18	1.15	1.13	1.10	1.08	1.05	1.03	1.00	0.98	0.96	0.93	0.91	0.89	0.87	0.85	0.82	0.80	0.78	0.76	0.75
50.0	1.06	1.04	1.02	1.00	0.98	0.96	0.94	0.92	0.90	0.88	0.86	0.84	0.82	0.80	0.78	0.77	0.75	0.73	0.71	0.70	0.68
60.0	0.95	0.93	0.91	0.90	0.88	0.86	0.85	0.83	0.81	0.80	0.78	0.76	0.75	0.73	0.72	0.70	0.68	0.67	0.66	0.64	0.63
70.0	0.86	0.84	0.83	0.81	0.80	0.79	0.77	0.76	0.74	0.73	0.71	0.70	0.69	0.67	0.66	0.64	0.63	0.62	0.61	0.59	0.58
80.0	0.78	0.77	0.76	0.75	0.73	0.72	0.71	0.70	0.68	0.67	0.66	0.65	0.63	0.62	0.61	0.60	0.59	0.57	0.56	0.55	0.54
90.0	0.72	0.71	0.70	0.69	0.68	0.67	0.65	0.64	0.63	0.62	0.61	0.60	0.59	0.58	0.57	0.56	0.55	0.54	0.53	0.52	0.51
100.0	0.67	0.66	0.65	0.64	0.63	0.62	0.61	0.60	0.59	0.58	0.57	0.56	0.55	0.54	0.53	0.52	0.51	0.50	0.49	0.48	0.47
110.0	0.62	0.61	0.60	0.60	0.59	0.58	0.57	0.56	0.55	0.54	0.53	0.52	0.52	0.51	0.50	0.49	0.48	0.47	0.46	0.46	0.45
120.0	0.58	0.57	0.57	0.56	0.55	0.54	0.53	0.53	0.52	0.51	0.50	0.49	0.48	0.48	0.47	0.46	0.45	0.45	0.44	0.43	0.42
130.0	0.55	0.54	0.53	0.52	0.52	0.51	0.50	0.49	0.49	0.48	0.47	0.46	0.46	0.45	0.44	0.44	0.43	0.42	0.41	0.41	0.40
140.0	0.52	0.51	0.50	0.50	0.49	0.48	0.47	0.47	0.46	0.45	0.45	0.44	0.43	0.43	0.42	0.41	0.41	0.40	0.39	0.39	0.38
150.0	0.49	0.48	0.47	0.47	0.46	0.46	0.45	0.44	0.44	0.43	0.42	0.42	0.41	0.41	0.40	0.39	0.39	0.38	0.37	0.37	0.36
160.0	0.46	0.46	0.45	0.44	0.44	0.43	0.43	0.42	0.42	0.41	0.40	0.40	0.39	0.39	0.38	0.37	0.37	0.36	0.36	0.35	0.35
170.0	0.44	0.43	0.43	0.42	0.42	0.41	0.41	0.40	0.40	0.39	0.38	0.38	0.37	0.37	0.36	0.36	0.35	0.35	0.34	0.34	0.33
180.0	0.42	0.41	0.41	0.40	0.40	0.39	0.39	0.38	0.38	0.37	0.37	0.36	0.36	0.35	0.35	0.34	0.34	0.33	0.33	0.32	0.32
190.0	0.40	0.40	0.39	0.39	0.38	0.38	0.37	0.37	0.36	0.36	0.35	0.35	0.34	0.34	0.33	0.33	0.32	0.32	0.31	0.31	0.30
200.0	0.38	0.38	0.37	0.37	0.36	0.36	0.36	0.35	0.35	0.34	0.34	0.33	0.33	0.32	0.32	0.31	0.31	0.30	0.30	0.30	0.29

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 1.00
TBP - VOLUME FRACTION - 0.200
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	1.40	1.32	1.25	1.19	1.13	1.07	1.03	0.98	0.94	0.90	0.86	0.83	0.80	0.77	0.74	0.72	0.69	0.67	0.65	0.63	0.61
10.0	0.98	0.95	0.92	0.89	0.86	0.83	0.81	0.78	0.76	0.73	0.71	0.69	0.67	0.65	0.63	0.61	0.60	0.58	0.57	0.55	0.54
20.0	0.78	0.76	0.74	0.72	0.71	0.69	0.67	0.65	0.64	0.62	0.61	0.59	0.58	0.56	0.55	0.54	0.53	0.51	0.50	0.49	0.48
30.0	0.66	0.64	0.63	0.62	0.61	0.59	0.58	0.57	0.56	0.55	0.53	0.52	0.51	0.50	0.49	0.48	0.47	0.46	0.45	0.45	0.44
40.0	0.57	0.56	0.55	0.54	0.53	0.52	0.51	0.50	0.50	0.49	0.48	0.47	0.46	0.45	0.45	0.44	0.43	0.42	0.42	0.41	0.40
50.0	0.51	0.50	0.49	0.48	0.48	0.47	0.46	0.46	0.45	0.44	0.44	0.43	0.42	0.42	0.41	0.40	0.40	0.39	0.38	0.38	0.37
60.0	0.46	0.45	0.45	0.44	0.43	0.43	0.42	0.42	0.41	0.41	0.40	0.39	0.39	0.38	0.38	0.37	0.37	0.36	0.36	0.35	0.35
70.0	0.42	0.41	0.41	0.40	0.40	0.39	0.39	0.39	0.38	0.38	0.37	0.37	0.36	0.36	0.35	0.35	0.34	0.34	0.34	0.33	0.33
80.0	0.39	0.38	0.38	0.37	0.37	0.37	0.36	0.36	0.36	0.35	0.35	0.34	0.34	0.34	0.33	0.33	0.32	0.32	0.32	0.31	0.31
90.0	0.36	0.36	0.35	0.35	0.35	0.34	0.34	0.34	0.33	0.33	0.33	0.32	0.32	0.32	0.31	0.31	0.31	0.30	0.30	0.30	0.30
100.0	0.34	0.33	0.33	0.33	0.33	0.32	0.32	0.32	0.32	0.31	0.31	0.31	0.30	0.30	0.30	0.30	0.29	0.29	0.29	0.29	0.28
110.0	0.32	0.32	0.31	0.31	0.31	0.31	0.30	0.30	0.30	0.30	0.29	0.29	0.29	0.29	0.29	0.28	0.28	0.28	0.28	0.27	0.27
120.0	0.30	0.30	0.30	0.30	0.29	0.29	0.29	0.29	0.29	0.28	0.28	0.28	0.28	0.28	0.27	0.27	0.27	0.27	0.27	0.26	0.26
130.0	0.29	0.29	0.28	0.28	0.28	0.28	0.28	0.28	0.27	0.27	0.27	0.27	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.25
140.0	0.28	0.27	0.27	0.27	0.27	0.27	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.25	0.25	0.25	0.25	0.25	0.24
150.0	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.24	0.24	0.24	0.24	0.24	0.24
160.0	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.23	0.23	0.23	0.23
170.0	0.25	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
180.0	0.24	0.24	0.24	0.24	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.22	0.22
190.0	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
200.0	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 1.00
TBP - VOLUME FRACTION - 0.200
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	12.01	11.22	10.51	9.87	9.30	8.78	8.31	7.88	7.49	7.13	6.80	6.50	6.22	5.96	5.72	5.49	5.28	5.09	4.91	4.74	4.58
10.0	8.97	8.55	8.16	7.79	7.45	7.12	6.82	6.54	6.28	6.03	5.80	5.58	5.38	5.19	5.01	4.84	4.68	4.53	4.39	4.25	4.12
20.0	7.36	7.07	6.80	6.55	6.31	6.07	5.86	5.65	5.45	5.27	5.09	4.92	4.77	4.62	4.48	4.34	4.22	4.10	3.98	3.87	3.77
30.0	6.30	6.09	5.89	5.69	5.51	5.33	5.16	5.00	4.85	4.70	4.56	4.43	4.30	4.18	4.06	3.95	3.85	3.75	3.66	3.57	3.48
40.0	5.54	5.38	5.21	5.06	4.91	4.77	4.63	4.50	4.38	4.26	4.14	4.03	3.93	3.83	3.73	3.64	3.55	3.47	3.39	3.31	3.24
50.0	4.96	4.83	4.69	4.57	4.44	4.33	4.21	4.10	4.00	3.90	3.80	3.71	3.62	3.54	3.46	3.38	3.30	3.23	3.16	3.10	3.03
60.0	4.50	4.39	4.28	4.17	4.06	3.97	3.87	3.78	3.69	3.60	3.52	3.44	3.37	3.30	3.23	3.16	3.09	3.03	2.97	2.91	2.86
70.0	4.13	4.03	3.93	3.84	3.75	3.67	3.59	3.51	3.43	3.36	3.29	3.22	3.15	3.09	3.03	2.97	2.91	2.86	2.81	2.76	2.71
80.0	3.81	3.73	3.64	3.57	3.49	3.42	3.34	3.28	3.21	3.15	3.09	3.03	2.97	2.91	2.86	2.81	2.76	2.71	2.66	2.62	2.57
90.0	3.55	3.47	3.40	3.33	3.26	3.20	3.14	3.08	3.02	2.96	2.91	2.86	2.81	2.76	2.71	2.67	2.62	2.58	2.54	2.49	2.45
100.0	3.32	3.25	3.19	3.13	3.07	3.01	2.96	2.91	2.86	2.81	2.76	2.71	2.67	2.62	2.58	2.54	2.50	2.46	2.42	2.39	2.35
110.0	3.12	3.06	3.01	2.95	2.90	2.85	2.80	2.76	2.71	2.67	2.62	2.58	2.54	2.50	2.46	2.43	2.39	2.36	2.32	2.29	2.25
120.0	2.95	2.90	2.85	2.80	2.75	2.71	2.67	2.62	2.58	2.54	2.50	2.47	2.43	2.39	2.36	2.33	2.29	2.26	2.23	2.20	2.17
130.0	2.80	2.75	2.71	2.66	2.62	2.58	2.54	2.51	2.47	2.43	2.40	2.36	2.33	2.30	2.27	2.24	2.20	2.18	2.15	2.12	2.09
140.0	2.66	2.62	2.58	2.54	2.51	2.47	2.43	2.40	2.37	2.33	2.30	2.27	2.24	2.21	2.18	2.15	2.12	2.10	2.07	2.04	2.02
150.0	2.54	2.51	2.47	2.43	2.40	2.37	2.34	2.30	2.27	2.24	2.21	2.19	2.16	2.13	2.10	2.08	2.05	2.03	2.00	1.98	1.95
160.0	2.43	2.40	2.37	2.34	2.31	2.28	2.25	2.22	2.19	2.16	2.14	2.11	2.08	2.06	2.03	2.01	1.98	1.96	1.94	1.91	1.89
170.0	2.34	2.31	2.28	2.25	2.22	2.19	2.17	2.14	2.11	2.09	2.06	2.04	2.01	1.99	1.97	1.94	1.92	1.90	1.88	1.85	1.83
180.0	2.25	2.22	2.20	2.17	2.14	2.12	2.09	2.07	2.04	2.02	2.00	1.97	1.95	1.93	1.91	1.88	1.86	1.84	1.82	1.80	1.78
190.0	2.17	2.14	2.12	2.09	2.07	2.05	2.02	2.00	1.98	1.96	1.93	1.91	1.89	1.87	1.85	1.83	1.81	1.79	1.77	1.75	1.73
200.0	2.10	2.07	2.05	2.03	2.01	1.98	1.96	1.94	1.92	1.90	1.88	1.86	1.84	1.82	1.80	1.78	1.76	1.74	1.72	1.70	1.68

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 3.00
TBP - VOLUME FRACTION - 0.200
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	15.82	8.47	5.94	4.60	3.77	3.19	2.76	2.44	2.18	1.96	1.79	1.64	1.51	1.39	1.30	1.21	1.13	1.06	1.00	0.94	0.89
10.0	4.47	3.71	3.17	2.77	2.45	2.20	1.99	1.81	1.67	1.54	1.43	1.33	1.24	1.16	1.09	1.03	0.97	0.92	0.87	0.83	0.79
20.0	2.74	2.44	2.20	2.00	1.83	1.69	1.56	1.45	1.35	1.27	1.19	1.12	1.06	1.00	0.95	0.90	0.85	0.81	0.77	0.74	0.70
30.0	2.00	1.84	1.70	1.58	1.47	1.37	1.29	1.21	1.14	1.08	1.02	0.97	0.92	0.88	0.83	0.80	0.76	0.73	0.70	0.67	0.64
40.0	1.58	1.48	1.39	1.30	1.23	1.16	1.10	1.04	0.99	0.94	0.90	0.86	0.82	0.78	0.75	0.72	0.69	0.66	0.63	0.61	0.58
50.0	1.31	1.24	1.17	1.11	1.06	1.01	0.96	0.91	0.87	0.84	0.80	0.77	0.73	0.70	0.68	0.65	0.62	0.60	0.58	0.56	0.54
60.0	1.12	1.07	1.02	0.97	0.93	0.89	0.85	0.82	0.78	0.75	0.72	0.69	0.67	0.64	0.62	0.59	0.57	0.55	0.53	0.51	0.50
70.0	0.98	0.94	0.90	0.86	0.83	0.80	0.77	0.74	0.71	0.68	0.66	0.63	0.61	0.59	0.57	0.55	0.53	0.51	0.49	0.48	0.46
80.0	0.87	0.84	0.81	0.78	0.75	0.72	0.70	0.67	0.65	0.62	0.60	0.58	0.56	0.54	0.53	0.51	0.49	0.48	0.46	0.45	0.43
90.0	0.79	0.76	0.73	0.71	0.68	0.66	0.64	0.62	0.60	0.58	0.56	0.54	0.52	0.50	0.49	0.47	0.46	0.44	0.43	0.42	0.40
100.0	0.72	0.69	0.67	0.65	0.63	0.61	0.59	0.57	0.55	0.53	0.52	0.50	0.49	0.47	0.46	0.44	0.43	0.42	0.40	0.39	0.38
110.0	0.66	0.64	0.62	0.60	0.58	0.56	0.55	0.53	0.51	0.50	0.48	0.47	0.46	0.44	0.43	0.42	0.40	0.39	0.38	0.37	0.36
120.0	0.61	0.59	0.57	0.56	0.54	0.52	0.51	0.50	0.48	0.47	0.45	0.44	0.43	0.42	0.40	0.39	0.38	0.37	0.36	0.35	0.34
130.0	0.57	0.55	0.54	0.52	0.51	0.49	0.48	0.46	0.45	0.44	0.43	0.42	0.40	0.39	0.38	0.37	0.36	0.35	0.34	0.33	0.32
140.0	0.53	0.52	0.50	0.49	0.47	0.46	0.45	0.44	0.43	0.41	0.40	0.39	0.38	0.37	0.36	0.35	0.34	0.33	0.33	0.32	0.31
150.0	0.50	0.48	0.47	0.46	0.45	0.44	0.42	0.41	0.40	0.39	0.38	0.37	0.36	0.35	0.34	0.34	0.33	0.32	0.31	0.30	0.29
160.0	0.47	0.46	0.45	0.43	0.42	0.41	0.40	0.39	0.38	0.37	0.36	0.35	0.35	0.34	0.33	0.32	0.31	0.30	0.30	0.29	0.28
170.0	0.44	0.43	0.42	0.41	0.40	0.39	0.38	0.37	0.36	0.35	0.35	0.34	0.33	0.32	0.31	0.31	0.30	0.29	0.28	0.28	0.27
180.0	0.42	0.41	0.40	0.39	0.38	0.37	0.36	0.36	0.35	0.34	0.33	0.32	0.31	0.31	0.30	0.29	0.29	0.28	0.27	0.26	0.26
190.0	0.40	0.39	0.38	0.37	0.36	0.36	0.35	0.34	0.33	0.32	0.32	0.31	0.30	0.29	0.29	0.28	0.27	0.27	0.26	0.25	0.25
200.0	0.38	0.37	0.36	0.36	0.35	0.34	0.33	0.32	0.32	0.31	0.30	0.30	0.29	0.28	0.28	0.27	0.26	0.26	0.25	0.24	0.24

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 3.00
TBP - VOLUME FRACTION - 0.200
(NEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	9.90	5.35	3.79	2.97	2.46	2.10	1.84	1.64	1.48	1.35	1.24	1.15	1.07	1.01	0.95	0.89	0.85	0.80	0.77	0.73	0.70
10.0	2.85	2.39	2.06	1.82	1.63	1.48	1.35	1.25	1.16	1.08	1.01	0.96	0.90	0.86	0.81	0.78	0.74	0.71	0.68	0.66	0.63
20.0	1.78	1.60	1.46	1.34	1.24	1.16	1.08	1.02	0.96	0.91	0.86	0.82	0.79	0.75	0.72	0.69	0.67	0.64	0.62	0.60	0.58
30.0	1.32	1.23	1.15	1.08	1.02	0.96	0.91	0.87	0.83	0.79	0.76	0.73	0.70	0.67	0.65	0.63	0.61	0.59	0.57	0.55	0.54
40.0	1.07	1.01	0.96	0.91	0.87	0.83	0.79	0.76	0.73	0.71	0.68	0.66	0.63	0.61	0.59	0.58	0.56	0.54	0.53	0.51	0.50
50.0	0.91	0.86	0.83	0.79	0.76	0.73	0.71	0.68	0.66	0.64	0.62	0.60	0.58	0.57	0.55	0.53	0.52	0.51	0.49	0.48	0.47
60.0	0.79	0.76	0.73	0.71	0.69	0.66	0.64	0.62	0.60	0.59	0.57	0.56	0.54	0.53	0.51	0.50	0.49	0.48	0.47	0.46	0.45
70.0	0.71	0.68	0.66	0.64	0.62	0.61	0.59	0.57	0.56	0.55	0.53	0.52	0.51	0.49	0.48	0.47	0.46	0.45	0.44	0.43	0.42
80.0	0.64	0.62	0.61	0.59	0.58	0.56	0.55	0.53	0.52	0.51	0.50	0.49	0.48	0.47	0.46	0.45	0.44	0.43	0.42	0.41	0.41
90.0	0.59	0.58	0.56	0.55	0.54	0.53	0.51	0.50	0.49	0.48	0.47	0.46	0.45	0.44	0.44	0.43	0.42	0.41	0.41	0.40	0.39
100.0	0.55	0.54	0.53	0.52	0.50	0.49	0.48	0.48	0.47	0.46	0.45	0.44	0.43	0.42	0.42	0.41	0.40	0.40	0.39	0.38	0.38
110.0	0.52	0.51	0.50	0.49	0.48	0.47	0.46	0.45	0.44	0.44	0.43	0.42	0.41	0.41	0.40	0.39	0.39	0.38	0.38	0.37	0.37
120.0	0.49	0.48	0.47	0.46	0.45	0.45	0.44	0.43	0.43	0.42	0.41	0.41	0.40	0.39	0.39	0.38	0.38	0.37	0.36	0.36	0.35
130.0	0.46	0.46	0.45	0.44	0.43	0.43	0.42	0.42	0.41	0.40	0.40	0.39	0.39	0.38	0.37	0.37	0.36	0.36	0.35	0.35	0.35
140.0	0.44	0.44	0.43	0.42	0.42	0.41	0.41	0.40	0.39	0.39	0.38	0.38	0.37	0.37	0.36	0.36	0.35	0.35	0.35	0.34	0.34
150.0	0.43	0.42	0.41	0.41	0.40	0.40	0.39	0.39	0.38	0.38	0.37	0.37	0.36	0.36	0.35	0.35	0.35	0.34	0.34	0.33	0.33
160.0	0.41	0.40	0.40	0.39	0.39	0.39	0.38	0.38	0.37	0.37	0.36	0.36	0.35	0.35	0.35	0.34	0.34	0.33	0.33	0.33	0.32
170.0	0.40	0.39	0.39	0.38	0.38	0.37	0.37	0.37	0.36	0.36	0.35	0.35	0.35	0.34	0.34	0.33	0.33	0.33	0.32	0.32	0.32
180.0	0.38	0.38	0.38	0.37	0.37	0.36	0.36	0.36	0.35	0.35	0.35	0.34	0.34	0.33	0.33	0.33	0.32	0.32	0.32	0.31	0.31
190.0	0.37	0.37	0.37	0.36	0.36	0.36	0.35	0.35	0.35	0.34	0.34	0.34	0.33	0.33	0.33	0.32	0.32	0.32	0.31	0.31	0.31
200.0	0.37	0.36	0.36	0.36	0.35	0.35	0.35	0.34	0.34	0.34	0.33	0.33	0.33	0.32	0.32	0.32	0.31	0.31	0.31	0.30	0.30

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 3.00
TBP - VOLUME FRACTION - 0.200
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	15.11	10.45	8.50	7.35	6.55	5.95	5.49	5.11	4.79	4.51	4.28	4.07	3.88	3.72	3.57	3.43	3.30	3.19	3.08	2.98	2.88
10.0	7.31	6.55	5.98	5.53	5.16	4.84	4.57	4.34	4.13	3.95	3.78	3.63	3.49	3.36	3.24	3.14	3.03	2.94	2.85	2.77	2.69
20.0	5.54	5.18	4.88	4.62	4.39	4.18	4.00	3.83	3.68	3.54	3.42	3.30	3.19	3.09	2.99	2.90	2.82	2.74	2.67	2.59	2.53
30.0	4.64	4.42	4.22	4.04	3.88	3.73	3.59	3.46	3.35	3.24	3.14	3.04	2.95	2.87	2.79	2.71	2.64	2.57	2.51	2.45	2.39
40.0	4.07	3.91	3.76	3.63	3.50	3.39	3.28	3.18	3.09	3.00	2.91	2.83	2.76	2.69	2.62	2.55	2.49	2.43	2.37	2.32	2.27
50.0	3.66	3.54	3.42	3.32	3.22	3.13	3.04	2.95	2.87	2.80	2.73	2.66	2.59	2.53	2.47	2.42	2.36	2.31	2.26	2.21	2.16
60.0	3.35	3.25	3.16	3.07	2.99	2.91	2.84	2.77	2.70	2.63	2.57	2.51	2.45	2.40	2.35	2.30	2.25	2.20	2.15	2.11	2.07
70.0	3.10	3.02	2.94	2.87	2.80	2.73	2.67	2.61	2.55	2.49	2.44	2.38	2.33	2.28	2.24	2.19	2.15	2.10	2.06	2.02	1.98
80.0	2.90	2.83	2.76	2.70	2.64	2.58	2.53	2.47	2.42	2.37	2.32	2.27	2.23	2.18	2.14	2.10	2.06	2.02	1.98	1.94	1.90
90.0	2.73	2.67	2.61	2.56	2.50	2.45	2.40	2.35	2.30	2.26	2.21	2.17	2.13	2.09	2.05	2.01	1.97	1.94	1.90	1.87	1.83
100.0	2.58	2.53	2.48	2.43	2.38	2.34	2.29	2.25	2.20	2.16	2.12	2.08	2.04	2.01	1.97	1.94	1.90	1.87	1.83	1.80	1.77
110.0	2.46	2.41	2.36	2.32	2.28	2.23	2.19	2.15	2.11	2.08	2.04	2.00	1.97	1.93	1.90	1.87	1.83	1.80	1.77	1.74	1.71
120.0	2.35	2.30	2.26	2.22	2.18	2.14	2.11	2.07	2.03	2.00	1.96	1.93	1.90	1.86	1.83	1.80	1.77	1.74	1.71	1.69	1.66
130.0	2.25	2.21	2.17	2.13	2.10	2.06	2.03	1.99	1.96	1.93	1.89	1.86	1.83	1.80	1.77	1.74	1.72	1.69	1.66	1.63	1.61
140.0	2.16	2.12	2.09	2.05	2.02	1.99	1.95	1.92	1.89	1.86	1.83	1.80	1.77	1.74	1.72	1.69	1.66	1.64	1.61	1.59	1.56
150.0	2.08	2.04	2.01	1.98	1.95	1.92	1.89	1.86	1.83	1.80	1.77	1.74	1.72	1.69	1.66	1.64	1.61	1.59	1.56	1.54	1.52
160.0	2.00	1.97	1.94	1.91	1.88	1.86	1.83	1.80	1.77	1.74	1.72	1.69	1.67	1.64	1.62	1.59	1.57	1.54	1.52	1.50	1.48
170.0	1.94	1.91	1.88	1.85	1.82	1.80	1.77	1.74	1.72	1.69	1.67	1.64	1.62	1.60	1.57	1.55	1.53	1.50	1.48	1.46	1.44
180.0	1.88	1.85	1.82	1.80	1.77	1.74	1.72	1.69	1.67	1.65	1.62	1.60	1.57	1.55	1.53	1.51	1.49	1.46	1.44	1.42	1.40
190.0	1.82	1.79	1.77	1.74	1.72	1.69	1.67	1.65	1.62	1.60	1.58	1.56	1.53	1.51	1.49	1.47	1.45	1.43	1.41	1.39	1.37
200.0	1.77	1.74	1.72	1.69	1.67	1.65	1.62	1.60	1.58	1.56	1.54	1.52	1.49	1.47	1.45	1.43	1.41	1.39	1.37	1.35	1.34

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 5.00
TBP - VOLUME FRACTION - 0.200
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	19.33	6.78	4.30	3.17	2.51	2.08	1.77	1.54	1.36	1.21	1.09	0.99	0.91	0.84	0.77	0.72	0.67	0.63	0.59	0.55	0.52
10.0	4.51	3.30	2.61	2.16	1.83	1.59	1.40	1.25	1.13	1.03	0.94	0.86	0.80	0.74	0.69	0.64	0.60	0.57	0.53	0.50	0.48
20.0	2.71	2.23	1.90	1.65	1.45	1.29	1.17	1.06	0.97	0.89	0.82	0.76	0.71	0.66	0.62	0.58	0.55	0.52	0.49	0.46	0.44
30.0	1.96	1.70	1.50	1.34	1.20	1.09	1.00	0.92	0.85	0.79	0.73	0.68	0.64	0.60	0.57	0.53	0.50	0.48	0.45	0.43	0.41
40.0	1.54	1.38	1.24	1.13	1.03	0.95	0.87	0.81	0.75	0.70	0.66	0.62	0.58	0.55	0.52	0.49	0.47	0.44	0.42	0.40	0.38
50.0	1.28	1.16	1.06	0.97	0.90	0.83	0.78	0.73	0.68	0.64	0.60	0.57	0.53	0.51	0.48	0.46	0.43	0.41	0.39	0.37	0.36
60.0	1.09	1.00	0.93	0.86	0.80	0.75	0.70	0.66	0.62	0.58	0.55	0.52	0.49	0.47	0.45	0.42	0.40	0.39	0.37	0.35	0.34
70.0	0.95	0.89	0.82	0.77	0.72	0.68	0.64	0.60	0.57	0.54	0.51	0.48	0.46	0.44	0.42	0.40	0.38	0.36	0.35	0.33	0.32
80.0	0.85	0.79	0.74	0.70	0.66	0.62	0.58	0.55	0.52	0.50	0.47	0.45	0.43	0.41	0.39	0.37	0.36	0.34	0.33	0.31	0.30
90.0	0.76	0.72	0.68	0.64	0.60	0.57	0.54	0.51	0.49	0.46	0.44	0.42	0.40	0.38	0.37	0.35	0.34	0.32	0.31	0.30	0.29
100.0	0.70	0.66	0.62	0.59	0.56	0.53	0.50	0.48	0.45	0.43	0.41	0.40	0.38	0.36	0.35	0.33	0.32	0.31	0.29	0.28	0.27
110.0	0.64	0.60	0.57	0.54	0.52	0.49	0.47	0.45	0.43	0.41	0.39	0.37	0.36	0.34	0.33	0.32	0.30	0.29	0.28	0.27	0.26
120.0	0.59	0.56	0.53	0.51	0.48	0.46	0.44	0.42	0.40	0.38	0.37	0.35	0.34	0.32	0.31	0.30	0.29	0.28	0.27	0.26	0.25
130.0	0.55	0.52	0.50	0.47	0.45	0.43	0.41	0.40	0.38	0.36	0.35	0.33	0.32	0.31	0.30	0.29	0.27	0.26	0.25	0.25	0.24
140.0	0.51	0.49	0.47	0.45	0.43	0.41	0.39	0.37	0.36	0.34	0.33	0.32	0.31	0.29	0.28	0.27	0.26	0.25	0.24	0.23	0.23
150.0	0.48	0.46	0.44	0.42	0.40	0.39	0.37	0.36	0.34	0.33	0.32	0.30	0.29	0.28	0.27	0.26	0.25	0.24	0.23	0.23	0.22
160.0	0.45	0.43	0.42	0.40	0.38	0.37	0.35	0.34	0.33	0.31	0.30	0.29	0.28	0.27	0.26	0.25	0.24	0.23	0.22	0.22	0.21
170.0	0.43	0.41	0.39	0.38	0.36	0.35	0.34	0.32	0.31	0.30	0.29	0.28	0.27	0.26	0.25	0.24	0.23	0.22	0.22	0.21	0.20
180.0	0.41	0.39	0.37	0.36	0.35	0.33	0.32	0.31	0.30	0.29	0.28	0.27	0.26	0.25	0.24	0.23	0.22	0.21	0.21	0.20	0.19
190.0	0.39	0.37	0.36	0.34	0.33	0.32	0.31	0.29	0.28	0.27	0.26	0.25	0.25	0.24	0.23	0.22	0.21	0.21	0.20	0.19	0.19
200.0	0.37	0.35	0.34	0.33	0.32	0.30	0.29	0.28	0.27	0.26	0.25	0.24	0.24	0.23	0.22	0.21	0.21	0.20	0.19	0.19	0.18

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 5.00
TBP - VOLUME FRACTION - 0.200
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	19.99	7.11	4.57	3.41	2.74	2.30	1.99	1.75	1.57	1.42	1.30	1.19	1.11	1.03	0.97	0.91	0.86	0.82	0.78	0.74	0.71
10.0	4.77	3.54	2.84	2.38	2.05	1.80	1.61	1.46	1.33	1.23	1.14	1.06	1.00	0.94	0.88	0.84	0.80	0.76	0.73	0.69	0.67
20.0	2.94	2.45	2.11	1.86	1.66	1.50	1.37	1.26	1.17	1.09	1.02	0.96	0.91	0.86	0.82	0.78	0.74	0.71	0.68	0.66	0.63
30.0	2.18	1.91	1.71	1.54	1.41	1.30	1.20	1.12	1.05	0.99	0.93	0.88	0.84	0.80	0.76	0.73	0.70	0.67	0.65	0.62	0.60
40.0	1.76	1.59	1.45	1.33	1.24	1.15	1.08	1.01	0.96	0.91	0.86	0.82	0.78	0.75	0.72	0.69	0.66	0.64	0.62	0.59	0.58
50.0	1.49	1.37	1.27	1.18	1.11	1.04	0.98	0.93	0.88	0.84	0.80	0.77	0.74	0.71	0.68	0.65	0.63	0.61	0.59	0.57	0.55
60.0	1.30	1.21	1.14	1.07	1.01	0.95	0.91	0.86	0.82	0.79	0.75	0.72	0.70	0.67	0.65	0.62	0.60	0.58	0.57	0.55	0.53
70.0	1.17	1.10	1.03	0.98	0.93	0.89	0.84	0.81	0.77	0.74	0.71	0.69	0.66	0.64	0.62	0.60	0.58	0.56	0.55	0.53	0.52
80.0	1.06	1.00	0.95	0.91	0.87	0.83	0.79	0.76	0.73	0.71	0.68	0.66	0.63	0.61	0.59	0.58	0.56	0.54	0.53	0.51	0.50
90.0	0.98	0.93	0.89	0.85	0.81	0.78	0.75	0.72	0.70	0.67	0.65	0.63	0.61	0.59	0.57	0.56	0.54	0.53	0.51	0.50	0.49
100.0	0.91	0.87	0.84	0.80	0.77	0.74	0.72	0.69	0.67	0.65	0.63	0.61	0.59	0.57	0.56	0.54	0.53	0.51	0.50	0.49	0.47
110.0	0.86	0.82	0.79	0.76	0.73	0.71	0.69	0.66	0.64	0.62	0.60	0.59	0.57	0.55	0.54	0.53	0.51	0.50	0.49	0.48	0.46
120.0	0.81	0.78	0.75	0.73	0.70	0.68	0.66	0.64	0.62	0.60	0.58	0.57	0.55	0.54	0.52	0.51	0.50	0.49	0.48	0.46	0.45
130.0	0.77	0.75	0.72	0.70	0.68	0.66	0.64	0.62	0.60	0.58	0.57	0.55	0.54	0.52	0.51	0.50	0.49	0.48	0.47	0.46	0.45
140.0	0.74	0.72	0.69	0.67	0.65	0.63	0.62	0.60	0.58	0.57	0.55	0.54	0.53	0.51	0.50	0.49	0.48	0.47	0.46	0.45	0.44
150.0	0.71	0.69	0.67	0.65	0.63	0.61	0.60	0.58	0.57	0.55	0.54	0.53	0.51	0.50	0.49	0.48	0.47	0.46	0.45	0.44	0.43
160.0	0.69	0.67	0.65	0.63	0.61	0.60	0.58	0.57	0.55	0.54	0.53	0.51	0.50	0.49	0.48	0.47	0.46	0.45	0.44	0.43	0.42
170.0	0.67	0.65	0.63	0.61	0.60	0.58	0.57	0.55	0.54	0.53	0.52	0.50	0.49	0.48	0.47	0.46	0.45	0.44	0.43	0.43	0.42
180.0	0.65	0.63	0.61	0.60	0.58	0.57	0.56	0.54	0.53	0.52	0.51	0.50	0.49	0.47	0.46	0.46	0.45	0.44	0.43	0.42	0.41
190.0	0.63	0.62	0.60	0.59	0.57	0.56	0.54	0.53	0.52	0.51	0.50	0.49	0.48	0.47	0.46	0.45	0.44	0.43	0.42	0.42	0.41
200.0	0.62	0.60	0.59	0.57	0.56	0.55	0.53	0.52	0.51	0.50	0.49	0.48	0.47	0.46	0.45	0.44	0.43	0.43	0.42	0.41	0.40

DISTRIBUTION COEFFICIENY FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 5.00
TBP - VOLUME FRACTION - 0.200
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	12.79	7.40	5.84	4.99	4.42	4.00	3.68	3.42	3.21	3.02	2.86	2.72	2.60	2.49	2.39	2.29	2.21	2.13	2.06	1.99	1.93
10.0	6.00	5.10	4.51	4.08	3.75	3.49	3.26	3.07	2.91	2.77	2.64	2.53	2.42	2.33	2.24	2.16	2.09	2.02	1.96	1.90	1.84
20.0	4.61	4.16	3.82	3.55	3.32	3.13	2.96	2.81	2.68	2.57	2.46	2.36	2.28	2.20	2.12	2.05	1.99	1.93	1.87	1.82	1.76
30.0	3.89	3.61	3.38	3.18	3.01	2.86	2.73	2.61	2.50	2.40	2.31	2.23	2.15	2.08	2.02	1.95	1.90	1.84	1.79	1.74	1.70
40.0	3.43	3.23	3.06	2.90	2.77	2.65	2.54	2.44	2.35	2.26	2.19	2.11	2.05	1.98	1.92	1.87	1.82	1.77	1.72	1.68	1.63
50.0	3.11	2.95	2.81	2.69	2.58	2.48	2.38	2.30	2.22	2.14	2.08	2.01	1.95	1.90	1.84	1.79	1.74	1.70	1.66	1.61	1.58
60.0	2.86	2.73	2.62	2.51	2.42	2.33	2.25	2.18	2.11	2.04	1.98	1.92	1.87	1.82	1.77	1.72	1.68	1.64	1.60	1.56	1.52
70.0	2.66	2.55	2.46	2.37	2.29	2.21	2.14	2.07	2.01	1.95	1.90	1.85	1.80	1.75	1.70	1.66	1.62	1.58	1.55	1.51	1.48
80.0	2.49	2.40	2.32	2.24	2.17	2.10	2.04	1.98	1.93	1.87	1.82	1.77	1.73	1.69	1.64	1.61	1.57	1.53	1.50	1.46	1.43
90.0	2.36	2.28	2.20	2.14	2.07	2.01	1.95	1.90	1.85	1.80	1.75	1.71	1.67	1.63	1.59	1.55	1.52	1.48	1.45	1.42	1.39
100.0	2.24	2.17	2.10	2.04	1.98	1.93	1.88	1.83	1.78	1.74	1.69	1.65	1.61	1.58	1.54	1.51	1.47	1.44	1.41	1.38	1.35
110.0	2.14	2.07	2.01	1.96	1.91	1.86	1.81	1.76	1.72	1.68	1.64	1.60	1.56	1.53	1.49	1.46	1.43	1.40	1.37	1.34	1.32
120.0	2.04	1.99	1.93	1.88	1.83	1.79	1.74	1.70	1.66	1.62	1.59	1.55	1.52	1.48	1.45	1.42	1.39	1.36	1.34	1.31	1.28
130.0	1.96	1.91	1.86	1.82	1.77	1.73	1.69	1.65	1.61	1.57	1.54	1.51	1.47	1.44	1.41	1.38	1.35	1.33	1.30	1.28	1.25
140.0	1.89	1.84	1.80	1.75	1.71	1.67	1.63	1.60	1.56	1.53	1.50	1.46	1.43	1.40	1.37	1.35	1.32	1.29	1.27	1.25	1.22
150.0	1.83	1.78	1.74	1.70	1.66	1.62	1.59	1.55	1.52	1.49	1.45	1.42	1.40	1.37	1.34	1.31	1.29	1.26	1.24	1.22	1.19
160.0	1.77	1.73	1.69	1.65	1.61	1.58	1.54	1.51	1.48	1.45	1.42	1.39	1.36	1.33	1.31	1.28	1.26	1.23	1.21	1.19	1.17
170.0	1.71	1.67	1.64	1.60	1.57	1.53	1.50	1.47	1.44	1.41	1.38	1.35	1.33	1.30	1.28	1.25	1.23	1.21	1.18	1.16	1.14
180.0	1.66	1.63	1.59	1.56	1.52	1.49	1.46	1.43	1.40	1.37	1.35	1.32	1.30	1.27	1.25	1.22	1.20	1.18	1.16	1.14	1.12
190.0	1.62	1.58	1.55	1.52	1.48	1.45	1.42	1.40	1.37	1.34	1.32	1.29	1.27	1.24	1.22	1.20	1.18	1.16	1.14	1.12	1.10
200.0	1.57	1.54	1.51	1.48	1.45	1.42	1.39	1.36	1.34	1.31	1.29	1.26	1.24	1.22	1.20	1.17	1.15	1.13	1.11	1.09	1.07

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 0.10
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	0.26	0.44	0.65	0.88	1.12	1.35	1.57	1.77	1.95	2.10	2.23	2.33	2.42	2.48	2.52	2.55	2.57	2.58	2.57	2.56	2.54
10.0	0.61	0.80	0.99	1.17	1.34	1.50	1.63	1.74	1.84	1.92	1.99	2.04	2.08	2.10	2.12	2.13	2.14	2.14	2.13	2.12	2.10
20.0	0.90	1.05	1.18	1.30	1.41	1.50	1.58	1.64	1.70	1.74	1.77	1.80	1.82	1.83	1.84	1.84	1.84	1.83	1.82	1.81	1.80
30.0	1.06	1.16	1.25	1.32	1.38	1.44	1.48	1.52	1.55	1.57	1.59	1.60	1.61	1.62	1.62	1.62	1.61	1.61	1.60	1.59	1.57
40.0	1.12	1.18	1.24	1.28	1.32	1.35	1.38	1.40	1.42	1.43	1.44	1.44	1.45	1.45	1.45	1.44	1.44	1.43	1.42	1.41	1.40
50.0	1.12	1.16	1.19	1.22	1.24	1.26	1.28	1.29	1.30	1.31	1.31	1.31	1.31	1.31	1.31	1.30	1.30	1.29	1.28	1.27	1.26
60.0	1.09	1.11	1.14	1.15	1.17	1.18	1.19	1.19	1.20	1.20	1.20	1.20	1.20	1.20	1.19	1.19	1.18	1.17	1.17	1.16	1.15
70.0	1.04	1.06	1.07	1.08	1.09	1.10	1.10	1.11	1.11	1.11	1.11	1.11	1.10	1.10	1.10	1.09	1.08	1.08	1.07	1.06	1.05
80.0	0.99	1.00	1.01	1.02	1.02	1.03	1.03	1.03	1.03	1.03	1.03	1.02	1.02	1.02	1.01	1.01	1.00	0.99	0.99	0.98	0.97
90.0	0.94	0.95	0.95	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.95	0.95	0.95	0.94	0.94	0.93	0.92	0.92	0.91	0.90
100.0	0.89	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.89	0.89	0.89	0.88	0.88	0.87	0.87	0.86	0.86	0.85	0.84
110.0	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.84	0.84	0.84	0.83	0.83	0.82	0.82	0.81	0.81	0.80	0.80	0.79
120.0	0.81	0.81	0.81	0.81	0.81	0.80	0.80	0.80	0.80	0.79	0.79	0.79	0.78	0.78	0.77	0.77	0.76	0.76	0.75	0.75	0.74
130.0	0.77	0.77	0.76	0.76	0.76	0.76	0.76	0.76	0.75	0.75	0.75	0.74	0.74	0.73	0.73	0.73	0.72	0.72	0.71	0.71	0.70
140.0	0.73	0.73	0.73	0.73	0.72	0.72	0.72	0.72	0.71	0.71	0.71	0.70	0.70	0.70	0.69	0.69	0.68	0.68	0.67	0.67	0.66
150.0	0.69	0.69	0.69	0.69	0.69	0.69	0.68	0.68	0.68	0.67	0.67	0.67	0.66	0.66	0.66	0.65	0.65	0.64	0.64	0.63	0.63
160.0	0.66	0.66	0.66	0.66	0.66	0.65	0.65	0.65	0.64	0.64	0.64	0.63	0.63	0.63	0.62	0.62	0.62	0.61	0.61	0.60	0.60
170.0	0.63	0.63	0.63	0.63	0.63	0.62	0.62	0.62	0.61	0.61	0.61	0.61	0.60	0.60	0.59	0.59	0.59	0.58	0.58	0.57	0.57
180.0	0.61	0.60	0.60	0.60	0.60	0.60	0.59	0.59	0.59	0.58	0.58	0.58	0.57	0.57	0.57	0.56	0.56	0.56	0.55	0.55	0.54
190.0	0.58	0.58	0.58	0.57	0.57	0.57	0.57	0.56	0.56	0.56	0.56	0.55	0.55	0.55	0.54	0.54	0.54	0.53	0.53	0.53	0.52
200.0	0.56	0.56	0.55	0.55	0.55	0.55	0.54	0.54	0.54	0.54	0.53	0.53	0.53	0.52	0.52	0.52	0.51	0.51	0.51	0.50	0.50

CAUTION --- POSSIBLE 2% PU POLYMER FORMATION IN 1.00 HOURS FOR PLUTONIUM CONCENTRATIONS IN EXCESS OF 18.18 G/L.

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 0.10
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	0.07	0.11	0.17	0.23	0.29	0.35	0.41	0.46	0.50	0.55	0.58	0.61	0.63	0.65	0.66	0.67	0.68	0.68	0.68	0.68	0.68
10.0	0.16	0.21	0.26	0.30	0.35	0.39	0.42	0.45	0.48	0.50	0.52	0.53	0.54	0.55	0.56	0.56	0.57	0.57	0.57	0.57	0.57
20.0	0.23	0.27	0.31	0.34	0.37	0.39	0.41	0.43	0.44	0.45	0.46	0.47	0.48	0.48	0.49	0.49	0.49	0.49	0.49	0.49	0.49
30.0	0.27	0.30	0.32	0.34	0.36	0.37	0.39	0.40	0.41	0.41	0.42	0.42	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
40.0	0.29	0.31	0.32	0.33	0.34	0.35	0.36	0.37	0.37	0.38	0.38	0.38	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
50.0	0.29	0.30	0.31	0.32	0.33	0.33	0.34	0.34	0.34	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
60.0	0.28	0.29	0.30	0.30	0.31	0.31	0.31	0.32	0.32	0.32	0.32	0.32	0.32	0.33	0.33	0.33	0.33	0.33	0.32	0.32	0.32
70.0	0.27	0.28	0.28	0.29	0.29	0.29	0.29	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
80.0	0.26	0.27	0.27	0.27	0.27	0.27	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
90.0	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
100.0	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
110.0	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
120.0	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
130.0	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
140.0	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
150.0	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
160.0	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
170.0	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.19
180.0	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
190.0	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18
200.0	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17

CAUTION --- POSSIBLE 2% PU POLYMER FORMATION IN 1.00 HOURS FOR PLUTONIUM CONCENTRATIONS IN EXCESS OF 18.18 G/L.

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 0.10
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	4.61	6.10	7.45	8.65	9.68	10.52	11.19	11.68	12.01	12.20	12.26	12.23	12.12	11.95	11.73	11.47	11.19	10.89	10.58	10.27	9.95
10.0	7.04	8.03	8.84	9.48	9.97	10.31	10.53	10.64	10.68	10.64	10.55	10.41	10.24	10.04	9.82	9.59	9.36	9.11	8.87	8.62	8.38
20.0	8.19	8.69	9.06	9.32	9.47	9.55	9.56	9.52	9.44	9.32	9.18	9.02	8.84	8.65	8.46	8.26	8.06	7.86	7.65	7.45	7.26
30.0	8.36	8.55	8.67	8.72	8.72	8.68	8.60	8.50	8.38	8.24	8.09	7.94	7.77	7.60	7.43	7.26	7.08	6.91	6.74	6.58	6.41
40.0	8.03	8.07	8.06	8.02	7.95	7.86	7.75	7.63	7.50	7.36	7.22	7.07	6.92	6.77	6.62	6.47	6.32	6.17	6.03	5.89	5.75
50.0	7.52	7.48	7.42	7.33	7.24	7.13	7.01	6.89	6.76	6.63	6.50	6.37	6.23	6.10	5.97	5.83	5.71	5.58	5.46	5.33	5.22
60.0	6.97	6.90	6.81	6.71	6.61	6.50	6.38	6.26	6.14	6.02	5.90	5.78	5.66	5.54	5.43	5.31	5.20	5.09	4.98	4.88	4.78
70.0	6.44	6.36	6.26	6.16	6.05	5.95	5.84	5.73	5.62	5.51	5.40	5.29	5.18	5.08	4.97	4.87	4.77	4.68	4.59	4.49	4.41
80.0	5.96	5.87	5.77	5.67	5.57	5.47	5.37	5.27	5.17	5.07	4.97	4.87	4.78	4.68	4.59	4.50	4.41	4.33	4.25	4.17	4.09
90.0	5.52	5.43	5.34	5.24	5.15	5.05	4.96	4.87	4.78	4.69	4.60	4.51	4.43	4.34	4.26	4.18	4.11	4.03	3.96	3.89	3.82
100.0	5.13	5.04	4.95	4.86	4.78	4.69	4.61	4.52	4.44	4.36	4.28	4.20	4.12	4.05	3.98	3.91	3.84	3.77	3.71	3.65	3.59
110.0	4.78	4.69	4.61	4.53	4.45	4.37	4.29	4.22	4.14	4.07	4.00	3.93	3.86	3.79	3.73	3.67	3.61	3.55	3.49	3.44	3.38
120.0	4.46	4.38	4.31	4.23	4.16	4.09	4.02	3.95	3.88	3.81	3.75	3.69	3.63	3.57	3.51	3.46	3.40	3.35	3.30	3.25	3.20
130.0	4.18	4.11	4.04	3.97	3.90	3.84	3.77	3.71	3.65	3.59	3.53	3.48	3.42	3.37	3.32	3.27	3.22	3.17	3.13	3.09	3.04
140.0	3.93	3.86	3.80	3.74	3.67	3.61	3.56	3.50	3.44	3.39	3.34	3.29	3.24	3.19	3.15	3.10	3.06	3.02	2.98	2.94	2.90
150.0	3.70	3.64	3.58	3.53	3.47	3.42	3.36	3.31	3.26	3.21	3.17	3.12	3.08	3.04	3.00	2.96	2.92	2.88	2.84	2.81	2.77
160.0	3.50	3.44	3.39	3.34	3.29	3.24	3.19	3.14	3.10	3.06	3.01	2.97	2.93	2.90	2.86	2.82	2.79	2.76	2.72	2.69	2.66
170.0	3.31	3.26	3.22	3.17	3.12	3.08	3.04	2.99	2.95	2.91	2.88	2.84	2.80	2.77	2.74	2.70	2.67	2.64	2.61	2.59	2.56
180.0	3.15	3.10	3.06	3.02	2.98	2.94	2.90	2.86	2.82	2.79	2.75	2.72	2.69	2.66	2.63	2.60	2.57	2.54	2.51	2.49	2.46
190.0	3.00	2.96	2.92	2.88	2.84	2.81	2.77	2.74	2.70	2.67	2.64	2.61	2.58	2.55	2.53	2.50	2.47	2.45	2.43	2.40	2.38
200.0	2.86	2.83	2.79	2.76	2.72	2.69	2.66	2.63	2.60	2.57	2.54	2.51	2.49	2.46	2.44	2.41	2.39	2.37	2.34	2.32	2.30

CAUTION --- POSSIBLE 2% PU POLYMER FORMATION IN 1.00 HOURS FOR PLUTONIUM CONCENTRATIONS IN EXCESS OF 18.18 G/L.

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 0.30
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	1.37	1.63	1.89	2.12	2.32	2.50	2.64	2.76	2.85	2.91	2.96	2.98	2.99	2.99	2.97	2.95	2.91	2.88	2.83	2.79	2.74
10.0	1.56	1.73	1.88	2.00	2.10	2.19	2.26	2.31	2.35	2.38	2.39	2.40	2.40	2.39	2.38	2.36	2.34	2.31	2.28	2.25	2.22
20.0	1.59	1.68	1.76	1.83	1.89	1.93	1.96	1.99	2.01	2.02	2.02	2.02	2.02	2.01	2.00	1.98	1.96	1.94	1.92	1.90	1.87
30.0	1.52	1.58	1.62	1.66	1.69	1.72	1.73	1.74	1.75	1.75	1.75	1.75	1.74	1.74	1.72	1.71	1.70	1.68	1.66	1.64	1.63
40.0	1.43	1.46	1.49	1.51	1.53	1.54	1.55	1.55	1.55	1.55	1.55	1.55	1.54	1.53	1.52	1.51	1.50	1.48	1.47	1.45	1.44
50.0	1.33	1.35	1.37	1.38	1.39	1.39	1.40	1.40	1.40	1.39	1.39	1.38	1.38	1.37	1.36	1.35	1.34	1.33	1.31	1.30	1.29
60.0	1.24	1.25	1.26	1.27	1.27	1.27	1.27	1.27	1.27	1.26	1.26	1.25	1.25	1.24	1.23	1.22	1.21	1.20	1.19	1.18	1.17
70.0	1.15	1.16	1.16	1.17	1.17	1.17	1.17	1.16	1.16	1.16	1.15	1.14	1.14	1.13	1.12	1.11	1.11	1.10	1.09	1.08	1.07
80.0	1.07	1.08	1.08	1.08	1.08	1.08	1.08	1.07	1.07	1.06	1.06	1.05	1.05	1.04	1.03	1.02	1.02	1.01	1.00	0.99	0.98
90.0	1.00	1.01	1.01	1.01	1.00	1.00	1.00	0.99	0.99	0.99	0.98	0.98	0.97	0.96	0.96	0.95	0.94	0.93	0.93	0.92	0.91
100.0	0.94	0.94	0.94	0.94	0.94	0.93	0.93	0.93	0.92	0.92	0.91	0.91	0.90	0.90	0.89	0.88	0.88	0.87	0.86	0.85	0.85
110.0	0.88	0.88	0.88	0.88	0.88	0.87	0.87	0.87	0.86	0.86	0.85	0.85	0.84	0.84	0.83	0.83	0.82	0.81	0.81	0.80	0.79
120.0	0.83	0.83	0.83	0.83	0.83	0.82	0.82	0.81	0.81	0.81	0.80	0.80	0.79	0.79	0.78	0.77	0.77	0.76	0.76	0.75	0.74
130.0	0.79	0.79	0.78	0.78	0.78	0.77	0.77	0.77	0.76	0.76	0.75	0.75	0.75	0.74	0.73	0.73	0.72	0.72	0.71	0.71	0.70
140.0	0.75	0.74	0.74	0.74	0.74	0.73	0.73	0.73	0.72	0.72	0.71	0.71	0.70	0.70	0.69	0.69	0.68	0.68	0.67	0.67	0.66
150.0	0.71	0.71	0.70	0.70	0.70	0.69	0.69	0.69	0.68	0.68	0.68	0.67	0.67	0.66	0.66	0.65	0.65	0.64	0.64	0.63	0.63
160.0	0.67	0.67	0.67	0.67	0.66	0.66	0.66	0.65	0.65	0.65	0.64	0.64	0.63	0.63	0.62	0.62	0.62	0.61	0.61	0.60	0.60
170.0	0.64	0.64	0.64	0.63	0.63	0.63	0.63	0.62	0.62	0.61	0.61	0.61	0.60	0.60	0.59	0.59	0.59	0.58	0.58	0.57	0.57
180.0	0.61	0.61	0.61	0.61	0.60	0.60	0.60	0.59	0.59	0.59	0.58	0.58	0.58	0.57	0.57	0.56	0.56	0.56	0.55	0.55	0.54
190.0	0.59	0.58	0.58	0.58	0.58	0.57	0.57	0.57	0.56	0.56	0.56	0.55	0.55	0.55	0.54	0.54	0.53	0.53	0.53	0.52	0.52
200.0	0.56	0.56	0.56	0.55	0.55	0.55	0.55	0.54	0.54	0.54	0.53	0.53	0.53	0.52	0.52	0.52	0.51	0.51	0.50	0.50	0.50

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 0.30
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	0.35	0.42	0.49	0.55	0.60	0.65	0.69	0.72	0.74	0.76	0.78	0.79	0.79	0.79	0.79	0.79	0.78	0.77	0.76	0.75	0.74
10.0	0.40	0.45	0.49	0.52	0.55	0.57	0.59	0.61	0.62	0.63	0.63	0.64	0.64	0.64	0.64	0.63	0.63	0.63	0.62	0.62	0.61
20.0	0.41	0.44	0.46	0.48	0.49	0.51	0.52	0.52	0.53	0.53	0.54	0.54	0.54	0.54	0.54	0.54	0.53	0.53	0.53	0.52	0.52
30.0	0.40	0.41	0.42	0.44	0.44	0.45	0.46	0.46	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.46	0.46	0.46	0.46	0.45
40.0	0.37	0.38	0.39	0.40	0.40	0.41	0.41	0.41	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.41	0.41	0.41	0.41	0.41
50.0	0.35	0.36	0.36	0.37	0.37	0.37	0.37	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.37	0.37	0.37	0.37	0.37	0.37
60.0	0.33	0.33	0.33	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34
70.0	0.31	0.31	0.31	0.31	0.31	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.31	0.31	0.31	0.31
80.0	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.30	0.30	0.30	0.30	0.30	0.30	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
90.0	0.27	0.27	0.27	0.27	0.27	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.27	0.27	0.27	0.27
100.0	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
110.0	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.24
120.0	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
130.0	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
140.0	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
150.0	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
160.0	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
170.0	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
180.0	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
190.0	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
200.0	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 0.30
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	10.79	11.68	12.40	12.92	13.28	13.47	13.53	13.48	13.33	13.11	12.84	12.52	12.18	11.82	11.46	11.09	10.72	10.35	10.00	9.65	9.31
10.0	10.78	11.12	11.34	11.45	11.46	11.41	11.29	11.13	10.93	10.70	10.46	10.19	9.93	9.65	9.38	9.10	8.83	8.56	8.30	8.05	7.80
20.0	10.04	10.10	10.10	10.04	9.95	9.81	9.65	9.47	9.28	9.07	8.86	8.64	8.42	8.20	7.98	7.77	7.55	7.35	7.14	6.95	6.76
30.0	9.11	9.06	8.97	8.86	8.73	8.58	8.41	8.24	8.06	7.88	7.70	7.51	7.33	7.15	6.97	6.79	6.62	6.45	6.29	6.13	5.97
40.0	8.23	8.13	8.01	7.88	7.74	7.59	7.44	7.29	7.13	6.97	6.81	6.65	6.50	6.34	6.19	6.05	5.90	5.76	5.63	5.50	5.37
50.0	7.44	7.32	7.20	7.07	6.94	6.80	6.66	6.52	6.38	6.24	6.11	5.97	5.84	5.71	5.58	5.45	5.33	5.21	5.10	4.99	4.88
60.0	6.76	6.64	6.52	6.40	6.27	6.15	6.02	5.90	5.78	5.65	5.53	5.42	5.30	5.19	5.08	4.97	4.87	4.77	4.67	4.57	4.48
70.0	6.17	6.06	5.94	5.83	5.72	5.60	5.49	5.38	5.27	5.16	5.06	4.96	4.86	4.76	4.66	4.57	4.48	4.39	4.31	4.23	4.15
80.0	5.66	5.55	5.45	5.35	5.24	5.14	5.04	4.94	4.85	4.75	4.66	4.57	4.48	4.39	4.31	4.23	4.15	4.08	4.00	3.93	3.86
90.0	5.22	5.12	5.03	4.93	4.84	4.75	4.66	4.57	4.48	4.40	4.32	4.24	4.16	4.09	4.01	3.94	3.87	3.81	3.74	3.68	3.62
100.0	4.83	4.74	4.66	4.57	4.49	4.41	4.33	4.25	4.17	4.10	4.02	3.95	3.89	3.82	3.75	3.69	3.63	3.57	3.52	3.46	3.41
110.0	4.49	4.41	4.34	4.26	4.18	4.11	4.04	3.97	3.90	3.83	3.77	3.71	3.65	3.59	3.53	3.48	3.42	3.37	3.32	3.27	3.23
120.0	4.20	4.12	4.05	3.98	3.92	3.85	3.79	3.72	3.66	3.60	3.55	3.49	3.44	3.38	3.33	3.29	3.24	3.19	3.15	3.10	3.06
130.0	3.93	3.87	3.80	3.74	3.68	3.62	3.56	3.51	3.45	3.40	3.35	3.30	3.25	3.21	3.16	3.12	3.07	3.03	2.99	2.96	2.92
140.0	3.70	3.64	3.58	3.53	3.47	3.42	3.37	3.32	3.27	3.22	3.18	3.13	3.09	3.05	3.01	2.97	2.93	2.89	2.86	2.82	2.79
150.0	3.49	3.44	3.39	3.34	3.29	3.24	3.19	3.15	3.10	3.06	3.02	2.98	2.94	2.91	2.87	2.83	2.80	2.77	2.74	2.70	2.67
160.0	3.31	3.26	3.21	3.17	3.12	3.08	3.04	3.00	2.96	2.92	2.88	2.85	2.81	2.78	2.75	2.72	2.68	2.66	2.63	2.60	2.57
170.0	3.14	3.10	3.06	3.01	2.97	2.94	2.90	2.86	2.83	2.79	2.76	2.73	2.70	2.67	2.64	2.61	2.58	2.55	2.53	2.50	2.48
180.0	2.99	2.95	2.91	2.88	2.84	2.81	2.77	2.74	2.71	2.68	2.65	2.62	2.59	2.56	2.54	2.51	2.48	2.46	2.44	2.41	2.39
190.0	2.86	2.82	2.79	2.75	2.72	2.69	2.66	2.63	2.60	2.57	2.55	2.52	2.49	2.47	2.44	2.42	2.40	2.38	2.35	2.33	2.31
200.0	2.74	2.71	2.67	2.64	2.61	2.59	2.56	2.53	2.50	2.48	2.45	2.43	2.41	2.38	2.36	2.34	2.32	2.30	2.28	2.26	2.24

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 0.50
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	2.87	3.08	3.26	3.39	3.49	3.56	3.59	3.61	3.60	3.58	3.54	3.49	3.44	3.37	3.31	3.24	3.17	3.09	3.02	2.95	2.87
10.0	2.45	2.55	2.62	2.68	2.72	2.74	2.75	2.75	2.74	2.73	2.70	2.68	2.64	2.61	2.57	2.53	2.48	2.44	2.39	2.35	2.30
20.0	2.12	2.17	2.20	2.23	2.24	2.25	2.25	2.25	2.24	2.23	2.21	2.19	2.17	2.14	2.11	2.08	2.05	2.02	1.99	1.96	1.92
30.0	1.86	1.89	1.90	1.91	1.92	1.92	1.92	1.91	1.90	1.89	1.88	1.86	1.84	1.82	1.80	1.78	1.76	1.73	1.71	1.68	1.66
40.0	1.66	1.67	1.68	1.68	1.68	1.68	1.67	1.67	1.66	1.65	1.63	1.62	1.61	1.59	1.57	1.55	1.54	1.52	1.50	1.48	1.46
50.0	1.49	1.49	1.50	1.50	1.49	1.49	1.48	1.48	1.47	1.46	1.45	1.44	1.42	1.41	1.40	1.38	1.37	1.35	1.33	1.32	1.30
60.0	1.35	1.35	1.35	1.35	1.35	1.34	1.34	1.33	1.32	1.31	1.30	1.29	1.28	1.27	1.26	1.24	1.23	1.22	1.20	1.19	1.17
70.0	1.23	1.23	1.23	1.23	1.22	1.22	1.21	1.21	1.20	1.19	1.18	1.17	1.16	1.15	1.14	1.13	1.12	1.11	1.10	1.08	1.07
80.0	1.14	1.13	1.13	1.13	1.12	1.12	1.11	1.10	1.10	1.09	1.08	1.07	1.06	1.06	1.05	1.04	1.03	1.02	1.01	0.99	0.98
90.0	1.05	1.05	1.04	1.04	1.04	1.03	1.03	1.02	1.01	1.01	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91
100.0	0.98	0.97	0.97	0.97	0.96	0.96	0.95	0.95	0.94	0.93	0.93	0.92	0.91	0.90	0.90	0.89	0.88	0.87	0.86	0.85	0.85
110.0	0.91	0.91	0.91	0.90	0.90	0.89	0.89	0.88	0.88	0.87	0.86	0.86	0.85	0.84	0.84	0.83	0.82	0.81	0.81	0.80	0.79
120.0	0.86	0.85	0.85	0.84	0.84	0.84	0.83	0.83	0.82	0.81	0.81	0.80	0.80	0.79	0.78	0.78	0.77	0.76	0.76	0.75	0.74
130.0	0.81	0.80	0.80	0.79	0.79	0.79	0.78	0.78	0.77	0.77	0.76	0.75	0.75	0.74	0.74	0.73	0.72	0.72	0.71	0.71	0.70
140.0	0.76	0.76	0.75	0.75	0.75	0.74	0.74	0.73	0.73	0.72	0.72	0.71	0.71	0.70	0.70	0.69	0.68	0.68	0.67	0.67	0.66
150.0	0.72	0.72	0.71	0.71	0.71	0.70	0.70	0.69	0.69	0.68	0.68	0.67	0.67	0.66	0.66	0.65	0.65	0.64	0.64	0.63	0.63
160.0	0.68	0.68	0.68	0.67	0.67	0.67	0.66	0.66	0.65	0.65	0.64	0.64	0.63	0.63	0.62	0.62	0.61	0.61	0.60	0.60	0.59
170.0	0.65	0.65	0.64	0.64	0.64	0.63	0.63	0.62	0.62	0.62	0.61	0.61	0.60	0.60	0.59	0.59	0.58	0.58	0.58	0.57	0.57
180.0	0.62	0.62	0.61	0.61	0.61	0.60	0.60	0.60	0.59	0.59	0.58	0.58	0.58	0.57	0.57	0.56	0.56	0.55	0.55	0.54	0.54
190.0	0.59	0.59	0.59	0.58	0.58	0.58	0.57	0.57	0.56	0.56	0.56	0.55	0.55	0.55	0.54	0.54	0.53	0.53	0.52	0.52	0.52
200.0	0.57	0.56	0.56	0.56	0.55	0.55	0.55	0.54	0.54	0.54	0.53	0.53	0.53	0.52	0.52	0.51	0.51	0.51	0.50	0.50	0.49

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 0.50
TBP - VOLUME FRACTION - 0.300
UNEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	0.74	0.80	0.85	0.89	0.91	0.93	0.95	0.95	0.95	0.95	0.94	0.93	0.92	0.91	0.89	0.88	0.86	0.85	0.83	0.81	0.80
10.0	0.64	0.67	0.69	0.70	0.71	0.72	0.73	0.73	0.73	0.73	0.73	0.72	0.71	0.71	0.70	0.69	0.68	0.67	0.66	0.65	0.65
20.0	0.56	0.57	0.58	0.59	0.59	0.60	0.60	0.60	0.60	0.60	0.60	0.59	0.59	0.59	0.58	0.58	0.57	0.56	0.56	0.55	0.55
30.0	0.49	0.50	0.50	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.50	0.50	0.50	0.49	0.49	0.48	0.48	0.48
40.0	0.44	0.44	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.44	0.44	0.44	0.44	0.43	0.43	0.43	0.42
50.0	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.39	0.39	0.39	0.39	0.38	0.38
60.0	0.36	0.36	0.36	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.35	0.35	0.35
70.0	0.33	0.33	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.32	0.32
80.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.30	0.30	0.30	0.30
90.0	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.28	0.28	0.28
100.0	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
110.0	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.25	0.25	0.25	0.25
120.0	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
130.0	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
140.0	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
150.0	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
160.0	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
170.0	0.19	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
180.0	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.20
190.0	0.18	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
200.0	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.19

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 0.50
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	15.11	15.34	15.39	15.31	15.10	14.80	14.44	14.03	13.60	13.14	12.68	12.22	11.76	11.32	10.89	10.47	10.07	9.69	9.33	8.98	8.65
10.0	12.50	12.43	12.28	12.09	11.85	11.58	11.29	10.98	10.67	10.35	10.03	9.72	9.41	9.11	8.81	8.53	8.25	7.99	7.73	7.49	7.26
20.0	10.58	10.43	10.25	10.05	9.83	9.60	9.36	9.12	8.87	8.63	8.39	8.15	7.92	7.69	7.47	7.26	7.05	6.85	6.66	6.47	6.29
30.0	9.14	8.98	8.80	8.61	8.42	8.22	8.03	7.83	7.63	7.43	7.24	7.05	6.87	6.69	6.52	6.35	6.18	6.02	5.87	5.72	5.58
40.0	8.03	7.87	7.71	7.54	7.38	7.21	7.04	6.87	6.71	6.55	6.39	6.23	6.08	5.94	5.79	5.66	5.52	5.39	5.27	5.15	5.03
50.0	7.14	7.00	6.85	6.71	6.56	6.42	6.27	6.13	5.99	5.86	5.72	5.59	5.47	5.34	5.23	5.11	5.00	4.89	4.79	4.69	4.59
60.0	6.43	6.30	6.17	6.04	5.91	5.78	5.66	5.54	5.42	5.30	5.19	5.08	4.97	4.87	4.77	4.67	4.58	4.48	4.40	4.31	4.23
70.0	5.83	5.72	5.60	5.49	5.37	5.26	5.16	5.05	4.95	4.85	4.75	4.66	4.56	4.47	4.39	4.31	4.22	4.15	4.07	4.00	3.93
80.0	5.33	5.23	5.13	5.03	4.93	4.83	4.74	4.64	4.56	4.47	4.38	4.30	4.22	4.15	4.07	4.00	3.93	3.86	3.80	3.73	3.67
90.0	4.91	4.82	4.73	4.64	4.55	4.46	4.38	4.30	4.22	4.15	4.07	4.00	3.93	3.86	3.80	3.74	3.68	3.62	3.56	3.50	3.45
100.0	4.55	4.46	4.38	4.30	4.23	4.15	4.08	4.01	3.94	3.87	3.81	3.74	3.68	3.62	3.57	3.51	3.46	3.41	3.36	3.31	3.26
110.0	4.23	4.16	4.08	4.01	3.95	3.88	3.81	3.75	3.69	3.63	3.57	3.52	3.47	3.41	3.36	3.31	3.27	3.22	3.18	3.13	3.09
120.0	3.96	3.89	3.83	3.76	3.70	3.64	3.59	3.53	3.48	3.42	3.37	3.32	3.28	3.23	3.19	3.14	3.10	3.06	3.02	2.98	2.94
130.0	3.72	3.66	3.60	3.54	3.49	3.44	3.38	3.34	3.29	3.24	3.20	3.15	3.11	3.07	3.03	2.99	2.95	2.92	2.88	2.85	2.81
140.0	3.50	3.45	3.40	3.35	3.30	3.25	3.21	3.16	3.12	3.08	3.04	3.00	2.96	2.93	2.89	2.85	2.82	2.79	2.76	2.73	2.70
150.0	3.31	3.27	3.22	3.18	3.13	3.09	3.05	3.01	2.97	2.93	2.90	2.86	2.83	2.80	2.76	2.73	2.70	2.67	2.64	2.62	2.59
160.0	3.15	3.10	3.06	3.02	2.98	2.95	2.91	2.87	2.84	2.81	2.77	2.74	2.71	2.68	2.65	2.62	2.60	2.57	2.54	2.52	2.49
170.0	3.00	2.96	2.92	2.89	2.85	2.82	2.78	2.75	2.72	2.69	2.66	2.63	2.60	2.58	2.55	2.53	2.50	2.48	2.45	2.43	2.40
180.0	2.86	2.83	2.79	2.76	2.73	2.70	2.67	2.64	2.61	2.59	2.56	2.53	2.51	2.48	2.46	2.44	2.41	2.39	2.37	2.35	2.32
190.0	2.74	2.71	2.68	2.65	2.62	2.59	2.57	2.54	2.52	2.49	2.47	2.44	2.42	2.40	2.37	2.35	2.33	2.31	2.29	2.27	2.25
200.0	2.63	2.60	2.58	2.55	2.52	2.50	2.47	2.45	2.43	2.40	2.38	2.36	2.34	2.32	2.30	2.28	2.26	2.24	2.22	2.20	2.18

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 1.00
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	7.51	7.10	6.72	6.37	6.04	5.74	5.46	5.20	4.96	4.73	4.52	4.33	4.14	3.97	3.81	3.65	3.51	3.37	3.24	3.12	3.01
10.0	4.24	4.14	4.03	3.93	3.82	3.71	3.61	3.50	3.40	3.30	3.20	3.11	3.01	2.92	2.84	2.75	2.67	2.59	2.52	2.44	2.37
20.0	3.07	3.02	2.96	2.91	2.85	2.79	2.74	2.68	2.62	2.56	2.50	2.44	2.39	2.33	2.27	2.22	2.17	2.11	2.06	2.01	1.96
30.0	2.43	2.40	2.37	2.33	2.30	2.26	2.22	2.18	2.14	2.10	2.06	2.02	1.98	1.94	1.90	1.86	1.83	1.79	1.75	1.71	1.68
40.0	2.03	2.01	1.98	1.96	1.93	1.90	1.87	1.85	1.82	1.79	1.76	1.73	1.70	1.67	1.64	1.61	1.58	1.55	1.52	1.49	1.47
50.0	1.74	1.73	1.71	1.69	1.67	1.65	1.62	1.60	1.58	1.56	1.53	1.51	1.49	1.46	1.44	1.42	1.39	1.37	1.35	1.32	1.30
60.0	1.53	1.52	1.50	1.49	1.47	1.45	1.43	1.42	1.40	1.38	1.36	1.34	1.32	1.30	1.29	1.27	1.25	1.23	1.21	1.19	1.17
70.0	1.37	1.35	1.34	1.33	1.31	1.30	1.29	1.27	1.26	1.24	1.22	1.21	1.19	1.18	1.16	1.14	1.13	1.11	1.10	1.08	1.06
80.0	1.24	1.22	1.21	1.20	1.19	1.18	1.17	1.15	1.14	1.13	1.11	1.10	1.09	1.07	1.06	1.04	1.03	1.02	1.00	0.99	0.97
90.0	1.13	1.12	1.11	1.10	1.09	1.08	1.07	1.05	1.04	1.03	1.02	1.01	1.00	0.98	0.97	0.96	0.95	0.94	0.92	0.91	0.90
100.0	1.04	1.03	1.02	1.01	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86	0.85	0.84
110.0	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.79	0.78
120.0	0.89	0.88	0.88	0.87	0.86	0.86	0.85	0.84	0.83	0.82	0.82	0.81	0.80	0.79	0.78	0.77	0.76	0.76	0.75	0.74	0.73
130.0	0.83	0.83	0.82	0.81	0.81	0.80	0.79	0.79	0.78	0.77	0.76	0.76	0.75	0.74	0.73	0.73	0.72	0.71	0.70	0.69	0.69
140.0	0.78	0.78	0.77	0.77	0.76	0.75	0.75	0.74	0.73	0.73	0.72	0.71	0.71	0.70	0.69	0.68	0.68	0.67	0.66	0.66	0.65
150.0	0.74	0.73	0.73	0.72	0.72	0.71	0.70	0.70	0.69	0.69	0.68	0.67	0.67	0.66	0.65	0.65	0.64	0.63	0.63	0.62	0.61
160.0	0.70	0.69	0.69	0.68	0.68	0.67	0.67	0.66	0.65	0.65	0.64	0.64	0.63	0.63	0.62	0.61	0.61	0.60	0.59	0.59	0.58
170.0	0.66	0.66	0.65	0.65	0.64	0.64	0.63	0.63	0.62	0.62	0.61	0.61	0.60	0.59	0.59	0.58	0.58	0.57	0.57	0.56	0.55
180.0	0.63	0.62	0.62	0.62	0.61	0.61	0.60	0.60	0.59	0.59	0.58	0.58	0.57	0.57	0.56	0.56	0.55	0.54	0.54	0.53	0.53
190.0	0.60	0.59	0.59	0.59	0.58	0.58	0.57	0.57	0.56	0.56	0.55	0.55	0.54	0.54	0.53	0.53	0.52	0.52	0.51	0.51	0.50
200.0	0.57	0.57	0.56	0.56	0.56	0.55	0.55	0.54	0.54	0.53	0.53	0.53	0.52	0.52	0.51	0.51	0.50	0.50	0.49	0.49	0.48

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 1.00
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	2.01	1.91	1.81	1.72	1.64	1.57	1.50	1.43	1.37	1.32	1.27	1.22	1.17	1.13	1.09	1.05	1.02	0.98	0.95	0.92	0.89
10.0	1.14	1.12	1.10	1.07	1.05	1.02	1.00	0.97	0.95	0.93	0.91	0.88	0.86	0.84	0.82	0.80	0.78	0.77	0.75	0.73	0.71
20.0	0.83	0.82	0.81	0.80	0.79	0.78	0.76	0.75	0.74	0.73	0.71	0.70	0.69	0.68	0.67	0.66	0.64	0.63	0.62	0.61	0.60
30.0	0.67	0.66	0.66	0.65	0.64	0.63	0.63	0.62	0.61	0.60	0.60	0.59	0.58	0.57	0.57	0.56	0.55	0.54	0.54	0.53	0.52
40.0	0.56	0.56	0.55	0.55	0.54	0.54	0.54	0.53	0.52	0.52	0.51	0.51	0.50	0.50	0.49	0.49	0.48	0.48	0.47	0.47	0.46
50.0	0.49	0.48	0.48	0.48	0.48	0.47	0.47	0.47	0.46	0.46	0.45	0.45	0.45	0.44	0.44	0.44	0.43	0.43	0.42	0.42	0.42
60.0	0.43	0.43	0.43	0.43	0.42	0.42	0.42	0.42	0.41	0.41	0.41	0.41	0.40	0.40	0.40	0.40	0.39	0.39	0.39	0.38	0.38
70.0	0.39	0.39	0.39	0.39	0.38	0.38	0.38	0.38	0.38	0.38	0.37	0.37	0.37	0.37	0.36	0.36	0.36	0.36	0.36	0.35	0.35
80.0	0.36	0.36	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.34	0.34	0.34	0.34	0.34	0.34	0.33	0.33	0.33	0.33	0.33
90.0	0.33	0.33	0.33	0.33	0.33	0.33	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.31	0.31	0.31	0.31	0.31	0.31
100.0	0.31	0.31	0.31	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.29	0.29	0.29	0.29	0.29
110.0	0.29	0.29	0.29	0.29	0.29	0.29	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
120.0	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.26	0.26
130.0	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.25	0.25	0.25	0.25	0.25	0.25
140.0	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
150.0	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
160.0	0.22	0.22	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
170.0	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
180.0	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22
190.0	0.20	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
200.0	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.21

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 1.00
T8P - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	20.62	19.18	17.90	16.74	15.69	14.74	13.88	13.10	12.39	11.74	11.15	10.60	10.10	9.63	9.21	8.81	8.44	8.10	7.78	7.49	7.21
10.0	13.01	12.47	11.94	11.45	10.97	10.52	10.09	9.69	9.31	8.95	8.61	8.30	8.00	7.71	7.44	7.19	6.95	6.73	6.52	6.32	6.13
20.0	9.98	9.65	9.32	9.01	8.71	8.42	8.14	7.88	7.63	7.39	7.16	6.94	6.73	6.53	6.34	6.16	5.99	5.82	5.67	5.52	5.37
30.0	8.23	7.99	7.76	7.54	7.32	7.11	6.91	6.72	6.53	6.35	6.18	6.02	5.86	5.71	5.56	5.43	5.29	5.17	5.05	4.93	4.82
40.0	7.06	6.88	6.70	6.52	6.36	6.20	6.04	5.89	5.74	5.61	5.47	5.34	5.22	5.10	4.99	4.88	4.77	4.67	4.57	4.48	4.39
50.0	6.21	6.06	5.92	5.78	5.64	5.51	5.39	5.27	5.15	5.04	4.93	4.83	4.72	4.63	4.53	4.44	4.36	4.27	4.19	4.12	4.04
60.0	5.55	5.43	5.31	5.20	5.09	4.98	4.88	4.78	4.68	4.59	4.50	4.41	4.33	4.25	4.17	4.10	4.02	3.95	3.88	3.82	3.75
70.0	5.03	4.93	4.83	4.74	4.65	4.56	4.47	4.38	4.30	4.22	4.15	4.08	4.01	3.94	3.87	3.81	3.74	3.68	3.63	3.57	3.51
80.0	4.61	4.53	4.44	4.36	4.28	4.20	4.13	4.06	3.99	3.92	3.86	3.79	3.73	3.68	3.62	3.56	3.51	3.46	3.41	3.36	3.31
90.0	4.26	4.19	4.11	4.04	3.98	3.91	3.85	3.78	3.72	3.67	3.61	3.56	3.50	3.45	3.40	3.35	3.31	3.26	3.22	3.17	3.13
100.0	3.96	3.90	3.84	3.78	3.72	3.66	3.60	3.55	3.50	3.45	3.40	3.35	3.31	3.26	3.22	3.17	3.13	3.09	3.05	3.01	2.98
110.0	3.71	3.65	3.60	3.55	3.49	3.44	3.40	3.35	3.30	3.26	3.22	3.17	3.13	3.09	3.05	3.02	2.98	2.94	2.91	2.87	2.84
120.0	3.49	3.44	3.39	3.35	3.30	3.26	3.21	3.17	3.13	3.09	3.05	3.02	2.98	2.95	2.91	2.88	2.84	2.81	2.78	2.75	2.72
130.0	3.30	3.26	3.21	3.17	3.13	3.09	3.05	3.02	2.98	2.95	2.91	2.88	2.85	2.81	2.78	2.75	2.72	2.69	2.66	2.64	2.61
140.0	3.13	3.09	3.06	3.02	2.98	2.95	2.91	2.88	2.85	2.82	2.79	2.76	2.73	2.70	2.67	2.64	2.61	2.59	2.56	2.53	2.51
150.0	2.98	2.95	2.92	2.88	2.85	2.82	2.79	2.76	2.73	2.70	2.67	2.64	2.62	2.59	2.56	2.54	2.51	2.49	2.47	2.44	2.42
160.0	2.85	2.82	2.79	2.76	2.73	2.70	2.67	2.65	2.62	2.59	2.57	2.54	2.52	2.49	2.47	2.45	2.42	2.40	2.38	2.36	2.33
170.0	2.73	2.70	2.68	2.65	2.62	2.60	2.57	2.55	2.52	2.50	2.48	2.45	2.43	2.41	2.39	2.36	2.34	2.32	2.30	2.28	2.26
180.0	2.63	2.60	2.57	2.55	2.53	2.50	2.48	2.46	2.43	2.41	2.39	2.37	2.35	2.33	2.31	2.29	2.27	2.25	2.23	2.21	2.19
190.0	2.53	2.51	2.48	2.46	2.44	2.42	2.39	2.37	2.35	2.33	2.31	2.29	2.27	2.25	2.23	2.21	2.20	2.18	2.16	2.14	2.12
200.0	2.44	2.42	2.40	2.38	2.36	2.34	2.32	2.30	2.28	2.26	2.24	2.22	2.20	2.18	2.17	2.15	2.13	2.11	2.10	2.08	2.06

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 3.00
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	34.59	19.89	14.24	11.15	9.18	7.80	6.78	5.98	5.35	4.83	4.40	4.03	3.72	3.44	3.20	2.99	2.80	2.63	2.47	2.33	2.21
10.0	7.49	6.62	5.92	5.35	4.88	4.47	4.12	3.82	3.56	3.32	3.11	2.92	2.75	2.60	2.46	2.33	2.21	2.10	2.00	1.91	1.82
20.0	4.40	4.09	3.82	3.58	3.36	3.17	2.99	2.83	2.68	2.54	2.42	2.30	2.19	2.09	2.00	1.91	1.83	1.75	1.68	1.61	1.55
30.0	3.15	2.99	2.84	2.71	2.58	2.46	2.35	2.25	2.15	2.06	1.98	1.90	1.83	1.75	1.69	1.62	1.56	1.51	1.45	1.40	1.35
40.0	2.46	2.36	2.27	2.18	2.10	2.02	1.94	1.87	1.80	1.74	1.68	1.62	1.56	1.51	1.46	1.41	1.36	1.32	1.28	1.24	1.20
50.0	2.03	1.96	1.89	1.83	1.77	1.71	1.66	1.60	1.55	1.50	1.46	1.41	1.37	1.33	1.29	1.25	1.21	1.17	1.14	1.11	1.07
60.0	1.72	1.67	1.63	1.58	1.53	1.49	1.45	1.40	1.36	1.33	1.29	1.25	1.22	1.18	1.15	1.12	1.09	1.06	1.03	1.00	0.97
70.0	1.50	1.46	1.42	1.39	1.35	1.32	1.28	1.25	1.22	1.19	1.16	1.13	1.10	1.07	1.04	1.01	0.99	0.96	0.94	0.91	0.89
80.0	1.33	1.30	1.27	1.24	1.21	1.18	1.15	1.13	1.10	1.07	1.05	1.02	1.00	0.97	0.95	0.93	0.91	0.88	0.86	0.84	0.82
90.0	1.20	1.17	1.14	1.12	1.10	1.07	1.05	1.02	1.00	0.98	0.96	0.94	0.91	0.89	0.87	0.85	0.83	0.82	0.80	0.78	0.76
100.0	1.09	1.06	1.04	1.02	1.00	0.98	0.96	0.94	0.92	0.90	0.88	0.86	0.84	0.83	0.81	0.79	0.77	0.76	0.74	0.73	0.71
110.0	0.99	0.98	0.96	0.94	0.92	0.90	0.89	0.87	0.85	0.83	0.82	0.80	0.78	0.77	0.75	0.74	0.72	0.71	0.69	0.68	0.66
120.0	0.92	0.90	0.89	0.87	0.85	0.84	0.82	0.81	0.79	0.78	0.76	0.75	0.73	0.72	0.70	0.69	0.68	0.66	0.65	0.64	0.62
130.0	0.85	0.84	0.82	0.81	0.79	0.78	0.77	0.75	0.74	0.73	0.71	0.70	0.69	0.67	0.66	0.65	0.64	0.62	0.61	0.60	0.59
140.0	0.80	0.78	0.77	0.76	0.74	0.73	0.72	0.71	0.69	0.68	0.67	0.66	0.65	0.64	0.62	0.61	0.60	0.59	0.58	0.57	0.56
150.0	0.75	0.73	0.72	0.71	0.70	0.69	0.68	0.67	0.65	0.64	0.63	0.62	0.61	0.60	0.59	0.58	0.57	0.56	0.55	0.54	0.53
160.0	0.70	0.69	0.68	0.67	0.66	0.65	0.64	0.63	0.62	0.61	0.60	0.59	0.58	0.57	0.56	0.55	0.54	0.53	0.52	0.51	0.50
170.0	0.66	0.65	0.64	0.63	0.62	0.61	0.61	0.60	0.59	0.58	0.57	0.56	0.55	0.54	0.53	0.52	0.51	0.50	0.50	0.49	0.48
180.0	0.63	0.62	0.61	0.60	0.59	0.58	0.58	0.57	0.56	0.55	0.54	0.53	0.52	0.51	0.51	0.50	0.49	0.48	0.47	0.47	0.46
190.0	0.60	0.59	0.58	0.57	0.56	0.56	0.55	0.54	0.53	0.52	0.52	0.51	0.50	0.49	0.48	0.48	0.47	0.46	0.45	0.44	0.44
200.0	0.57	0.56	0.55	0.55	0.54	0.53	0.52	0.52	0.51	0.50	0.49	0.49	0.48	0.47	0.46	0.46	0.45	0.44	0.43	0.43	0.42

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 3.00
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	12.68	7.36	5.32	4.21	3.51	3.01	2.64	2.36	2.13	1.95	1.80	1.66	1.55	1.45	1.37	1.29	1.22	1.16	1.11	1.06	1.01
10.0	2.30	2.50	2.26	2.06	1.90	1.76	1.64	1.54	1.45	1.37	1.30	1.23	1.17	1.12	1.07	1.03	0.99	0.95	0.92	0.89	0.86
20.0	1.68	1.58	1.49	1.41	1.34	1.27	1.21	1.16	1.11	1.07	1.03	0.99	0.96	0.92	0.89	0.86	0.84	0.81	0.79	0.77	0.75
30.0	1.22	1.17	1.13	1.09	1.05	1.01	0.98	0.94	0.91	0.89	0.86	0.84	0.81	0.79	0.77	0.75	0.73	0.71	0.70	0.68	0.66
40.0	0.98	0.95	0.92	0.89	0.87	0.85	0.82	0.80	0.78	0.76	0.75	0.73	0.71	0.70	0.68	0.67	0.65	0.64	0.63	0.61	0.60
50.0	0.82	0.80	0.78	0.77	0.75	0.73	0.72	0.70	0.69	0.68	0.66	0.65	0.64	0.63	0.61	0.60	0.59	0.58	0.57	0.56	0.55
60.0	0.71	0.70	0.69	0.67	0.66	0.65	0.64	0.63	0.62	0.61	0.60	0.59	0.58	0.57	0.56	0.55	0.54	0.54	0.53	0.52	0.51
70.0	0.63	0.62	0.61	0.61	0.60	0.59	0.58	0.57	0.56	0.56	0.55	0.54	0.53	0.53	0.52	0.51	0.51	0.50	0.49	0.49	0.48
80.0	0.57	0.57	0.56	0.55	0.55	0.54	0.53	0.53	0.52	0.51	0.51	0.50	0.50	0.49	0.49	0.48	0.47	0.47	0.46	0.46	0.45
90.0	0.53	0.52	0.52	0.51	0.50	0.50	0.49	0.49	0.49	0.48	0.48	0.47	0.47	0.46	0.46	0.45	0.45	0.44	0.44	0.44	0.43
100.0	0.49	0.48	0.48	0.48	0.47	0.47	0.46	0.46	0.46	0.45	0.45	0.44	0.44	0.44	0.43	0.43	0.43	0.42	0.42	0.42	0.41
110.0	0.46	0.45	0.45	0.45	0.44	0.44	0.44	0.43	0.43	0.43	0.43	0.42	0.42	0.42	0.41	0.41	0.41	0.40	0.40	0.40	0.39
120.0	0.43	0.43	0.43	0.42	0.42	0.42	0.42	0.41	0.41	0.41	0.41	0.40	0.40	0.40	0.40	0.39	0.39	0.39	0.39	0.38	0.38
130.0	0.41	0.41	0.40	0.40	0.40	0.40	0.40	0.39	0.39	0.39	0.39	0.39	0.38	0.38	0.38	0.38	0.38	0.37	0.37	0.37	0.37
140.0	0.39	0.39	0.39	0.39	0.38	0.38	0.38	0.38	0.38	0.38	0.37	0.37	0.37	0.37	0.37	0.37	0.36	0.36	0.36	0.36	0.36
150.0	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.35	0.35	0.35	0.35	0.35	0.35
160.0	0.36	0.36	0.36	0.36	0.36	0.36	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.34	0.34	0.34	0.34	0.34	0.34
170.0	0.35	0.35	0.35	0.35	0.35	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.33	0.33	0.33	0.33	0.33
180.0	0.34	0.34	0.34	0.34	0.34	0.34	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.32	0.32	0.32
190.0	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
200.0	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.31	0.31	0.31	0.31	0.31	0.31

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 3.00
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	22.38	15.89	12.98	11.21	9.98	9.06	8.34	7.75	7.25	6.83	6.47	6.14	5.86	5.60	5.37	5.16	4.96	4.79	4.62	4.47	4.32
10.0	9.10	8.43	7.88	7.41	7.00	6.65	6.33	6.05	5.79	5.56	5.35	5.15	4.97	4.81	4.65	4.50	4.37	4.24	4.12	4.00	3.89
20.0	6.73	6.43	6.16	5.92	5.69	5.48	5.29	5.12	4.95	4.80	4.65	4.52	4.39	4.27	4.15	4.04	3.94	3.84	3.74	3.65	3.56
30.0	5.56	5.38	5.21	5.05	4.91	4.76	4.63	4.51	4.39	4.27	4.16	4.06	3.96	3.87	3.78	3.69	3.61	3.53	3.45	3.37	3.30
40.0	4.84	4.71	4.59	4.48	4.37	4.26	4.16	4.06	3.97	3.88	3.80	3.72	3.64	3.56	3.48	3.41	3.34	3.28	3.21	3.15	3.09
50.0	4.33	4.23	4.14	4.05	3.97	3.88	3.80	3.73	3.65	3.58	3.51	3.44	3.37	3.31	3.25	3.19	3.13	3.07	3.01	2.96	2.91
60.0	3.95	3.87	3.80	3.72	3.65	3.59	3.52	3.46	3.39	3.33	3.27	3.21	3.16	3.10	3.05	3.00	2.94	2.89	2.84	2.80	2.75
70.0	3.65	3.58	3.52	3.46	3.40	3.34	3.29	3.23	3.18	3.13	3.07	3.02	2.97	2.93	2.88	2.83	2.79	2.74	2.70	2.66	2.61
80.0	3.40	3.35	3.29	3.24	3.19	3.14	3.09	3.04	3.00	2.95	2.91	2.86	2.82	2.77	2.73	2.69	2.65	2.61	2.57	2.53	2.49
90.0	3.19	3.15	3.10	3.06	3.01	2.97	2.93	2.88	2.84	2.80	2.76	2.72	2.68	2.64	2.60	2.57	2.53	2.49	2.46	2.42	2.39
100.0	3.02	2.98	2.94	2.90	2.86	2.82	2.78	2.74	2.70	2.67	2.63	2.59	2.56	2.52	2.49	2.46	2.42	2.39	2.36	2.32	2.29
110.0	2.87	2.83	2.79	2.76	2.72	2.69	2.65	2.62	2.58	2.55	2.52	2.48	2.45	2.42	2.39	2.36	2.33	2.30	2.27	2.24	2.21
120.0	2.73	2.70	2.67	2.64	2.60	2.57	2.54	2.51	2.48	2.45	2.41	2.38	2.35	2.33	2.30	2.27	2.24	2.21	2.18	2.15	2.13
130.0	2.62	2.59	2.56	2.53	2.50	2.47	2.44	2.41	2.38	2.35	2.32	2.29	2.27	2.24	2.21	2.19	2.16	2.13	2.11	2.08	2.06
140.0	2.51	2.48	2.45	2.43	2.40	2.37	2.35	2.32	2.29	2.27	2.24	2.21	2.19	2.16	2.14	2.11	2.09	2.06	2.04	2.01	1.99
150.0	2.42	2.39	2.36	2.34	2.31	2.29	2.26	2.24	2.21	2.19	2.16	2.14	2.11	2.09	2.07	2.04	2.02	2.00	1.97	1.95	1.93
160.0	2.33	2.30	2.28	2.26	2.23	2.21	2.19	2.16	2.14	2.12	2.09	2.07	2.05	2.02	2.00	1.98	1.96	1.94	1.91	1.89	1.87
170.0	2.25	2.23	2.20	2.18	2.16	2.14	2.11	2.09	2.07	2.05	2.03	2.01	1.98	1.96	1.94	1.92	1.90	1.88	1.86	1.84	1.82
180.0	2.18	2.16	2.13	2.11	2.09	2.07	2.05	2.03	2.01	1.99	1.97	1.95	1.93	1.91	1.89	1.87	1.85	1.83	1.81	1.79	1.77
190.0	2.11	2.09	2.07	2.05	2.03	2.01	1.99	1.97	1.95	1.93	1.91	1.89	1.87	1.85	1.83	1.82	1.80	1.78	1.76	1.74	1.72
200.0	2.05	2.03	2.01	1.99	1.97	1.95	1.93	1.92	1.90	1.88	1.86	1.84	1.82	1.80	1.79	1.77	1.75	1.73	1.71	1.70	1.68

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 5.00
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	44.25	16.41	10.49	7.77	6.17	5.11	4.36	3.79	3.35	2.99	2.70	2.45	2.24	2.06	1.91	1.77	1.65	1.54	1.45	1.36	1.28
10.0	7.51	6.08	5.10	4.38	3.84	3.40	3.05	2.76	2.52	2.31	2.13	1.97	1.83	1.71	1.60	1.50	1.41	1.33	1.26	1.19	1.13
20.0	4.35	3.84	3.43	3.09	2.81	2.57	2.36	2.18	2.03	1.89	1.76	1.65	1.55	1.46	1.38	1.30	1.23	1.17	1.11	1.06	1.01
30.0	3.09	2.83	2.60	2.40	2.22	2.07	1.93	1.81	1.70	1.60	1.51	1.42	1.35	1.28	1.21	1.15	1.10	1.05	1.00	0.95	0.91
40.0	2.41	2.24	2.10	1.96	1.84	1.73	1.63	1.54	1.46	1.39	1.32	1.25	1.19	1.13	1.08	1.03	0.99	0.94	0.90	0.87	0.83
50.0	1.98	1.87	1.76	1.66	1.57	1.49	1.42	1.35	1.28	1.22	1.17	1.12	1.07	1.02	0.98	0.94	0.90	0.86	0.83	0.79	0.76
60.0	1.68	1.60	1.52	1.45	1.38	1.31	1.25	1.20	1.15	1.10	1.05	1.01	0.97	0.93	0.89	0.86	0.82	0.79	0.76	0.73	0.71
70.0	1.47	1.40	1.34	1.28	1.22	1.17	1.12	1.08	1.03	0.99	0.95	0.92	0.88	0.85	0.82	0.79	0.76	0.73	0.71	0.68	0.66
80.0	1.30	1.24	1.19	1.15	1.10	1.06	1.02	0.98	0.94	0.91	0.87	0.84	0.81	0.78	0.76	0.73	0.70	0.68	0.66	0.63	0.61
90.0	1.17	1.12	1.08	1.04	1.00	0.97	0.93	0.90	0.87	0.84	0.81	0.78	0.75	0.73	0.70	0.68	0.66	0.64	0.61	0.59	0.58
100.0	1.06	1.02	0.99	0.95	0.92	0.89	0.86	0.83	0.80	0.77	0.75	0.72	0.70	0.68	0.66	0.64	0.62	0.60	0.58	0.56	0.54
110.0	0.97	0.94	0.91	0.88	0.85	0.82	0.79	0.77	0.74	0.72	0.70	0.68	0.66	0.64	0.62	0.60	0.58	0.56	0.54	0.53	0.51
120.0	0.89	0.87	0.84	0.81	0.79	0.76	0.74	0.72	0.70	0.68	0.66	0.64	0.62	0.60	0.58	0.56	0.55	0.53	0.51	0.50	0.49
130.0	0.83	0.81	0.78	0.76	0.74	0.71	0.69	0.67	0.65	0.63	0.62	0.60	0.58	0.56	0.55	0.53	0.52	0.50	0.49	0.47	0.46
140.0	0.77	0.75	0.73	0.71	0.69	0.67	0.65	0.63	0.62	0.60	0.58	0.57	0.55	0.53	0.52	0.51	0.49	0.48	0.46	0.45	0.44
150.0	0.73	0.71	0.69	0.67	0.65	0.63	0.62	0.60	0.58	0.57	0.55	0.54	0.52	0.51	0.49	0.48	0.47	0.45	0.44	0.43	0.42
160.0	0.68	0.67	0.65	0.63	0.61	0.60	0.58	0.57	0.55	0.54	0.52	0.51	0.50	0.48	0.47	0.46	0.45	0.43	0.42	0.41	0.40
170.0	0.65	0.63	0.61	0.60	0.58	0.57	0.55	0.54	0.52	0.51	0.50	0.49	0.47	0.46	0.45	0.44	0.43	0.41	0.40	0.39	0.38
180.0	0.61	0.60	0.58	0.57	0.55	0.54	0.53	0.51	0.50	0.49	0.48	0.46	0.45	0.44	0.43	0.42	0.41	0.40	0.39	0.38	0.37
190.0	0.58	0.57	0.55	0.54	0.53	0.51	0.50	0.49	0.48	0.47	0.45	0.44	0.43	0.42	0.41	0.40	0.39	0.38	0.37	0.36	0.35
200.0	0.55	0.54	0.53	0.52	0.50	0.49	0.48	0.47	0.46	0.45	0.44	0.42	0.41	0.40	0.39	0.38	0.38	0.37	0.36	0.35	0.34

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 5.00
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	26.85	10.09	6.54	4.91	3.95	3.32	2.87	2.53	2.26	2.05	1.88	1.73	1.60	1.50	1.40	1.32	1.25	1.18	1.13	1.07	1.03
10.0	4.67	3.83	3.25	2.84	2.52	2.26	2.06	1.89	1.75	1.62	1.52	1.43	1.34	1.27	1.21	1.15	1.10	1.05	1.00	0.96	0.93
20.0	2.77	2.47	2.24	2.05	1.89	1.75	1.63	1.53	1.44	1.36	1.29	1.22	1.17	1.11	1.07	1.02	0.98	0.94	0.91	0.88	0.85
30.0	2.02	1.87	1.74	1.63	1.53	1.44	1.37	1.30	1.23	1.18	1.13	1.08	1.04	1.00	0.96	0.93	0.89	0.86	0.84	0.81	0.79
40.0	1.61	1.52	1.44	1.36	1.30	1.24	1.18	1.13	1.09	1.05	1.01	0.97	0.94	0.91	0.88	0.85	0.82	0.80	0.78	0.76	0.74
50.0	1.35	1.29	1.24	1.18	1.14	1.09	1.05	1.02	0.98	0.95	0.92	0.89	0.86	0.84	0.81	0.79	0.77	0.75	0.73	0.71	0.69
60.0	1.18	1.13	1.09	1.05	1.02	0.98	0.95	0.92	0.90	0.87	0.85	0.82	0.80	0.78	0.76	0.74	0.72	0.70	0.69	0.67	0.66
70.0	1.05	1.02	0.99	0.96	0.93	0.90	0.88	0.85	0.83	0.81	0.79	0.77	0.75	0.73	0.71	0.70	0.68	0.67	0.65	0.64	0.63
80.0	0.95	0.93	0.90	0.88	0.86	0.83	0.81	0.79	0.77	0.76	0.74	0.72	0.71	0.69	0.68	0.66	0.65	0.64	0.62	0.61	0.60
90.0	0.88	0.86	0.83	0.82	0.80	0.78	0.76	0.75	0.73	0.71	0.70	0.68	0.67	0.66	0.65	0.63	0.62	0.61	0.60	0.59	0.58
100.0	0.82	0.80	0.78	0.76	0.75	0.73	0.72	0.70	0.69	0.68	0.67	0.65	0.64	0.63	0.62	0.61	0.60	0.59	0.58	0.57	0.56
110.0	0.76	0.75	0.74	0.72	0.71	0.70	0.68	0.67	0.66	0.65	0.64	0.63	0.61	0.60	0.59	0.58	0.58	0.57	0.56	0.55	0.54
120.0	0.72	0.71	0.70	0.69	0.67	0.66	0.65	0.64	0.63	0.62	0.61	0.60	0.59	0.58	0.57	0.57	0.56	0.55	0.54	0.53	0.52
130.0	0.69	0.68	0.67	0.66	0.65	0.64	0.63	0.62	0.61	0.60	0.59	0.58	0.57	0.56	0.56	0.55	0.54	0.53	0.52	0.52	0.51
140.0	0.66	0.65	0.64	0.63	0.62	0.61	0.60	0.59	0.59	0.58	0.57	0.56	0.55	0.55	0.54	0.53	0.53	0.52	0.51	0.50	0.50
150.0	0.63	0.62	0.61	0.61	0.60	0.59	0.58	0.58	0.57	0.56	0.55	0.55	0.54	0.53	0.53	0.52	0.51	0.51	0.50	0.49	0.49
160.0	0.61	0.60	0.59	0.59	0.58	0.57	0.57	0.56	0.55	0.55	0.54	0.53	0.53	0.52	0.51	0.51	0.50	0.49	0.49	0.48	0.48
170.0	0.59	0.58	0.58	0.57	0.56	0.56	0.55	0.54	0.54	0.53	0.53	0.52	0.51	0.51	0.50	0.50	0.49	0.49	0.48	0.47	0.47
180.0	0.57	0.57	0.56	0.55	0.55	0.54	0.54	0.53	0.53	0.52	0.51	0.51	0.50	0.50	0.49	0.49	0.48	0.48	0.47	0.47	0.46
190.0	0.56	0.55	0.55	0.54	0.54	0.53	0.52	0.52	0.51	0.51	0.50	0.50	0.49	0.49	0.48	0.48	0.47	0.47	0.46	0.46	0.45
200.0	0.54	0.54	0.53	0.53	0.52	0.52	0.51	0.51	0.50	0.50	0.49	0.49	0.48	0.48	0.48	0.47	0.47	0.46	0.46	0.45	0.45

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 5.00
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 25.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	18.64	11.01	8.70	7.43	6.59	5.97	5.49	5.10	4.78	4.50	4.26	4.05	3.87	3.70	3.55	3.41	3.29	3.17	3.06	2.96	2.87
10.0	7.37	6.59	6.00	5.54	5.16	4.84	4.57	4.34	4.13	3.94	3.77	3.62	3.48	3.36	3.24	3.13	3.03	2.94	2.85	2.76	2.69
20.0	5.55	5.19	4.88	4.62	4.39	4.18	4.00	3.83	3.68	3.55	3.42	3.30	3.19	3.09	3.00	2.91	2.82	2.74	2.67	2.60	2.53
30.0	4.64	4.42	4.22	4.04	3.88	3.73	3.60	3.47	3.36	3.25	3.15	3.05	2.96	2.88	2.80	2.72	2.65	2.58	2.52	2.46	2.40
40.0	4.07	3.92	3.77	3.64	3.52	3.40	3.30	3.20	3.10	3.01	2.93	2.85	2.77	2.70	2.63	2.57	2.51	2.45	2.39	2.33	2.28
50.0	3.67	3.55	3.44	3.33	3.24	3.14	3.06	2.97	2.89	2.82	2.75	2.68	2.61	2.55	2.49	2.44	2.38	2.33	2.28	2.23	2.18
60.0	3.37	3.27	3.18	3.09	3.01	2.93	2.86	2.79	2.72	2.66	2.60	2.54	2.48	2.42	2.37	2.32	2.27	2.22	2.18	2.13	2.09
70.0	3.12	3.04	2.97	2.90	2.83	2.76	2.70	2.64	2.58	2.52	2.46	2.41	2.36	2.31	2.26	2.22	2.17	2.13	2.09	2.05	2.01
80.0	2.93	2.86	2.79	2.73	2.67	2.61	2.56	2.50	2.45	2.40	2.35	2.30	2.26	2.21	2.17	2.13	2.09	2.05	2.01	1.97	1.94
90.0	2.76	2.70	2.64	2.59	2.54	2.48	2.44	2.39	2.34	2.29	2.25	2.21	2.17	2.13	2.09	2.05	2.01	1.97	1.94	1.90	1.87
100.0	2.62	2.57	2.52	2.47	2.42	2.37	2.33	2.28	2.24	2.20	2.16	2.12	2.08	2.05	2.01	1.97	1.94	1.91	1.87	1.84	1.81
110.0	2.50	2.45	2.40	2.36	2.32	2.27	2.23	2.19	2.16	2.12	2.08	2.04	2.01	1.97	1.94	1.91	1.88	1.84	1.81	1.78	1.75
120.0	2.39	2.35	2.30	2.26	2.22	2.19	2.15	2.11	2.08	2.04	2.01	1.97	1.94	1.91	1.88	1.85	1.82	1.79	1.76	1.73	1.70
130.0	2.29	2.25	2.22	2.18	2.14	2.11	2.07	2.04	2.01	1.97	1.94	1.91	1.88	1.85	1.82	1.79	1.76	1.74	1.71	1.68	1.66
140.0	2.21	2.17	2.13	2.10	2.07	2.03	2.00	1.97	1.94	1.91	1.88	1.85	1.82	1.79	1.77	1.74	1.71	1.69	1.66	1.64	1.61
150.0	2.13	2.09	2.06	2.03	2.00	1.97	1.94	1.91	1.88	1.85	1.82	1.80	1.77	1.74	1.72	1.69	1.67	1.64	1.62	1.59	1.57
160.0	2.06	2.03	2.00	1.97	1.94	1.91	1.88	1.85	1.83	1.80	1.77	1.75	1.72	1.70	1.67	1.65	1.62	1.60	1.58	1.55	1.53
170.0	1.99	1.96	1.94	1.91	1.88	1.85	1.83	1.80	1.77	1.75	1.72	1.70	1.68	1.65	1.63	1.61	1.58	1.56	1.54	1.52	1.49
180.0	1.93	1.91	1.88	1.86	1.83	1.80	1.78	1.75	1.73	1.70	1.68	1.66	1.63	1.61	1.59	1.57	1.54	1.52	1.50	1.48	1.46
190.0	1.88	1.85	1.83	1.80	1.78	1.75	1.73	1.71	1.68	1.66	1.64	1.62	1.59	1.57	1.55	1.53	1.51	1.49	1.47	1.45	1.43
200.0	1.83	1.80	1.78	1.76	1.73	1.71	1.69	1.66	1.64	1.62	1.60	1.58	1.56	1.54	1.52	1.49	1.47	1.46	1.44	1.42	1.40

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 0.10
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	0.17	0.29	0.44	0.59	0.74	0.89	1.03	1.15	1.26	1.35	1.42	1.48	1.52	1.55	1.58	1.59	1.59	1.59	1.58	1.57	1.55
10.0	0.42	0.56	0.69	0.83	0.95	1.05	1.15	1.23	1.29	1.34	1.38	1.41	1.43	1.44	1.45	1.45	1.45	1.44	1.43	1.41	1.40
20.0	0.66	0.77	0.88	0.97	1.06	1.13	1.18	1.23	1.26	1.29	1.31	1.32	1.33	1.33	1.33	1.33	1.32	1.31	1.30	1.28	1.27
30.0	0.82	0.91	0.98	1.04	1.09	1.13	1.17	1.19	1.21	1.23	1.23	1.24	1.24	1.24	1.23	1.22	1.21	1.20	1.19	1.18	1.16
40.0	0.91	0.97	1.02	1.05	1.08	1.11	1.13	1.14	1.15	1.15	1.16	1.16	1.15	1.15	1.14	1.13	1.12	1.11	1.10	1.08	1.07
50.0	0.95	0.99	1.01	1.04	1.05	1.07	1.08	1.08	1.08	1.08	1.08	1.08	1.07	1.07	1.06	1.05	1.04	1.03	1.02	1.00	0.99
60.0	0.95	0.97	0.99	1.00	1.01	1.02	1.02	1.02	1.02	1.02	1.02	1.01	1.00	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92
70.0	0.93	0.95	0.96	0.96	0.97	0.97	0.97	0.97	0.96	0.96	0.95	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86
80.0	0.91	0.91	0.92	0.92	0.92	0.92	0.92	0.91	0.91	0.90	0.90	0.89	0.88	0.87	0.87	0.86	0.85	0.84	0.83	0.82	0.81
90.0	0.87	0.87	0.88	0.88	0.87	0.87	0.87	0.86	0.86	0.85	0.85	0.84	0.83	0.82	0.82	0.81	0.80	0.79	0.78	0.77	0.76
100.0	0.84	0.84	0.84	0.83	0.83	0.83	0.82	0.82	0.81	0.81	0.80	0.79	0.79	0.78	0.77	0.76	0.75	0.74	0.73	0.73	0.72
110.0	0.80	0.80	0.80	0.79	0.79	0.79	0.78	0.78	0.77	0.76	0.76	0.75	0.74	0.74	0.73	0.72	0.71	0.70	0.70	0.69	0.68
120.0	0.77	0.76	0.76	0.76	0.75	0.75	0.74	0.74	0.73	0.72	0.72	0.71	0.70	0.70	0.69	0.68	0.67	0.67	0.66	0.65	0.64
130.0	0.73	0.73	0.73	0.72	0.72	0.71	0.71	0.70	0.70	0.69	0.68	0.68	0.67	0.66	0.66	0.65	0.64	0.63	0.63	0.62	0.61
140.0	0.70	0.70	0.69	0.69	0.68	0.68	0.67	0.67	0.66	0.66	0.65	0.64	0.64	0.63	0.62	0.62	0.61	0.60	0.60	0.59	0.58
150.0	0.67	0.67	0.66	0.66	0.65	0.65	0.64	0.64	0.63	0.63	0.62	0.61	0.61	0.60	0.60	0.59	0.58	0.58	0.57	0.56	0.56
160.0	0.64	0.64	0.63	0.63	0.62	0.62	0.61	0.61	0.60	0.60	0.59	0.59	0.58	0.58	0.57	0.56	0.56	0.55	0.54	0.54	0.53
170.0	0.62	0.61	0.61	0.60	0.60	0.59	0.59	0.58	0.58	0.57	0.57	0.56	0.56	0.55	0.54	0.54	0.53	0.53	0.52	0.51	0.51
180.0	0.59	0.59	0.58	0.58	0.57	0.57	0.56	0.56	0.55	0.55	0.54	0.54	0.53	0.53	0.52	0.52	0.51	0.51	0.50	0.49	0.49
190.0	0.57	0.56	0.56	0.56	0.55	0.55	0.54	0.54	0.53	0.53	0.52	0.52	0.51	0.51	0.50	0.50	0.49	0.48	0.48	0.47	0.47
200.0	0.55	0.54	0.54	0.53	0.53	0.53	0.52	0.52	0.51	0.51	0.50	0.50	0.49	0.49	0.48	0.48	0.47	0.47	0.46	0.46	0.45

CAUTION --- POSSIBLE 2% PU POLYMER FORMATION IN 1.00 HOURS FOR PLUTONIUM CONCENTRATIONS IN EXCESS OF 5.28 G/L.

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 0.10
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	0.07	0.13	0.19	0.26	0.32	0.39	0.45	0.51	0.55	0.59	0.63	0.65	0.68	0.69	0.70	0.71	0.71	0.71	0.71	0.71	0.70
10.0	0.18	0.24	0.30	0.36	0.42	0.46	0.51	0.54	0.57	0.59	0.61	0.63	0.64	0.64	0.65	0.65	0.65	0.65	0.65	0.64	0.64
20.0	0.29	0.34	0.39	0.43	0.46	0.50	0.52	0.54	0.56	0.57	0.58	0.59	0.60	0.60	0.60	0.60	0.60	0.60	0.59	0.59	0.58
30.0	0.36	0.40	0.43	0.46	0.48	0.50	0.52	0.53	0.54	0.55	0.55	0.56	0.56	0.56	0.56	0.56	0.55	0.55	0.55	0.54	0.54
40.0	0.40	0.43	0.45	0.47	0.48	0.49	0.50	0.51	0.51	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.51	0.51	0.51	0.50
50.0	0.42	0.44	0.45	0.46	0.47	0.48	0.48	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.48	0.48	0.48	0.48	0.47	0.47
60.0	0.42	0.43	0.44	0.45	0.45	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.45	0.45	0.45	0.44	0.44
70.0	0.42	0.42	0.43	0.43	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.43	0.43	0.43	0.43	0.42	0.42	0.42	0.42
80.0	0.41	0.41	0.41	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.40	0.40	0.39
90.0	0.39	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.39	0.39	0.39	0.39	0.39	0.39	0.38	0.38	0.38	0.38
100.0	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.37	0.37	0.37	0.37	0.37	0.37	0.36	0.36	0.36
110.0	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.35	0.35	0.35	0.35	0.35	0.34
120.0	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.34	0.34	0.34	0.34	0.34	0.34	0.33	0.33	0.33
130.0	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.32	0.32	0.32	0.32
140.0	0.33	0.33	0.33	0.33	0.33	0.33	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.31	0.31	0.31	0.31	0.31
150.0	0.32	0.32	0.32	0.32	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.30	0.30	0.30	0.30	0.30
160.0	0.31	0.31	0.31	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.29	0.29	0.29	0.29	0.29
170.0	0.30	0.30	0.30	0.30	0.30	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.28	0.28	0.28
180.0	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
190.0	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
200.0	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.26	0.26

CAUTION --- POSSIBLE 2% PU POLYMER FORMATION IN 1.00 HOURS FOR PLUTONIUM CONCENTRATIONS IN EXCESS OF 5.28 G/L.

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 0.10
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	4.37	5.78	7.05	8.16	9.09	9.85	10.42	10.82	11.08	11.20	11.21	11.14	10.99	10.80	10.57	10.31	10.04	9.75	9.45	9.16	8.87
10.0	6.83	7.84	8.67	9.32	9.81	10.14	10.35	10.44	10.45	10.38	10.26	10.09	9.89	9.66	9.42	9.17	8.92	8.66	8.40	8.14	7.89
20.0	8.29	8.87	9.28	9.57	9.74	9.82	9.81	9.75	9.64	9.49	9.31	9.12	8.90	8.68	8.45	8.22	7.99	7.76	7.54	7.31	7.10
30.0	8.83	9.08	9.22	9.29	9.28	9.22	9.12	8.98	8.83	8.65	8.46	8.26	8.05	7.85	7.64	7.43	7.22	7.02	6.82	6.63	6.44
40.0	8.78	8.83	8.82	8.76	8.67	8.55	8.40	8.24	8.07	7.89	7.70	7.51	7.32	7.13	6.94	6.76	6.57	6.40	6.22	6.05	5.89
50.0	8.42	8.36	8.27	8.16	8.03	7.88	7.73	7.56	7.39	7.22	7.04	6.87	6.69	6.52	6.35	6.19	6.02	5.87	5.71	5.57	5.42
60.0	7.93	7.82	7.70	7.57	7.42	7.27	7.11	6.95	6.79	6.63	6.46	6.31	6.15	5.99	5.84	5.70	5.55	5.41	5.28	5.15	5.02
70.0	7.41	7.28	7.15	7.01	6.86	6.71	6.56	6.41	6.26	6.11	5.96	5.82	5.68	5.54	5.40	5.27	5.14	5.02	4.90	4.79	4.67
80.0	6.90	6.77	6.63	6.49	6.35	6.21	6.07	5.93	5.79	5.65	5.52	5.39	5.26	5.14	5.02	4.90	4.79	4.68	4.57	4.47	4.37
90.0	6.42	6.29	6.16	6.03	5.89	5.76	5.63	5.50	5.38	5.25	5.13	5.02	4.90	4.79	4.68	4.58	4.48	4.38	4.29	4.20	4.11
100.0	5.98	5.86	5.73	5.61	5.49	5.36	5.24	5.13	5.01	4.90	4.79	4.69	4.58	4.49	4.39	4.30	4.21	4.12	4.04	3.95	3.88
110.0	5.58	5.47	5.35	5.23	5.12	5.01	4.90	4.79	4.69	4.59	4.49	4.40	4.30	4.22	4.13	4.05	3.97	3.89	3.81	3.74	3.67
120.0	5.22	5.11	5.00	4.90	4.79	4.69	4.59	4.50	4.40	4.31	4.22	4.14	4.06	3.98	3.90	3.82	3.75	3.68	3.61	3.55	3.49
130.0	4.89	4.79	4.69	4.60	4.50	4.41	4.32	4.23	4.15	4.07	3.99	3.91	3.84	3.76	3.69	3.63	3.56	3.50	3.44	3.38	3.32
140.0	4.60	4.51	4.42	4.33	4.24	4.16	4.08	4.00	3.92	3.85	3.77	3.71	3.64	3.57	3.51	3.45	3.39	3.33	3.28	3.23	3.18
150.0	4.33	4.25	4.17	4.09	4.01	3.93	3.86	3.79	3.72	3.65	3.58	3.52	3.46	3.40	3.35	3.29	3.24	3.19	3.14	3.09	3.04
160.0	4.09	4.02	3.94	3.87	3.80	3.73	3.66	3.60	3.53	3.47	3.41	3.36	3.30	3.25	3.20	3.15	3.10	3.05	3.01	2.97	2.92
170.0	3.88	3.81	3.74	3.67	3.61	3.54	3.48	3.43	3.37	3.31	3.26	3.21	3.16	3.11	3.07	3.02	2.98	2.93	2.89	2.85	2.82
180.0	3.68	3.62	3.56	3.50	3.44	3.38	3.32	3.27	3.22	3.17	3.12	3.08	3.03	2.99	2.94	2.90	2.86	2.83	2.79	2.75	2.72
190.0	3.51	3.45	3.39	3.34	3.28	3.23	3.18	3.13	3.09	3.04	3.00	2.95	2.91	2.87	2.84	2.80	2.76	2.73	2.69	2.66	2.62
200.0	3.35	3.29	3.24	3.19	3.14	3.10	3.05	3.01	2.96	2.92	2.88	2.84	2.81	2.77	2.74	2.70	2.67	2.63	2.60	2.57	2.54

CAUTION --- POSSIBLE 2% PU POLYMER FORMATION IN 1.00 HOURS FOR PLUTONIUM CONCENTRATIONS IN EXCESS OF 5.28 G/L.

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 0.30
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	0.92	1.09	1.26	1.40	1.53	1.63	1.71	1.78	1.82	1.85	1.87	1.87	1.87	1.86	1.84	1.82	1.79	1.76	1.73	1.70	1.67
10.0	1.14	1.26	1.36	1.45	1.52	1.58	1.62	1.65	1.66	1.67	1.67	1.67	1.66	1.64	1.63	1.60	1.58	1.56	1.53	1.50	1.47
20.0	1.23	1.31	1.37	1.42	1.46	1.48	1.50	1.51	1.52	1.52	1.51	1.50	1.49	1.47	1.46	1.44	1.41	1.39	1.37	1.35	1.32
30.0	1.25	1.29	1.33	1.35	1.37	1.38	1.39	1.39	1.39	1.38	1.37	1.36	1.35	1.33	1.32	1.30	1.28	1.26	1.24	1.22	1.20
40.0	1.22	1.25	1.26	1.27	1.28	1.29	1.29	1.28	1.28	1.27	1.26	1.24	1.23	1.22	1.20	1.18	1.17	1.15	1.13	1.11	1.10
50.0	1.17	1.18	1.19	1.20	1.20	1.20	1.19	1.18	1.18	1.17	1.16	1.14	1.13	1.12	1.10	1.09	1.07	1.06	1.04	1.03	1.01
60.0	1.11	1.12	1.12	1.12	1.12	1.11	1.11	1.10	1.09	1.08	1.07	1.06	1.05	1.03	1.02	1.01	0.99	0.98	0.96	0.95	0.93
70.0	1.05	1.05	1.05	1.05	1.05	1.04	1.03	1.02	1.02	1.01	1.00	0.98	0.97	0.96	0.95	0.94	0.92	0.91	0.90	0.88	0.87
80.0	1.00	0.99	0.99	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.88	0.87	0.86	0.85	0.84	0.83	0.81
90.0	0.94	0.94	0.93	0.93	0.92	0.91	0.91	0.90	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.79	0.77	0.76
100.0	0.89	0.89	0.88	0.87	0.87	0.86	0.85	0.84	0.84	0.83	0.82	0.81	0.80	0.79	0.78	0.77	0.76	0.75	0.74	0.73	0.72
110.0	0.84	0.84	0.83	0.83	0.82	0.81	0.80	0.80	0.79	0.78	0.77	0.76	0.75	0.74	0.74	0.73	0.72	0.71	0.70	0.69	0.68
120.0	0.80	0.79	0.79	0.78	0.77	0.77	0.76	0.75	0.75	0.74	0.73	0.72	0.71	0.70	0.70	0.69	0.68	0.67	0.66	0.65	0.64
130.0	0.76	0.75	0.75	0.74	0.73	0.73	0.72	0.71	0.71	0.70	0.69	0.68	0.68	0.67	0.66	0.65	0.64	0.63	0.63	0.62	0.61
140.0	0.72	0.72	0.71	0.70	0.70	0.69	0.69	0.68	0.67	0.66	0.66	0.65	0.64	0.63	0.63	0.62	0.61	0.60	0.60	0.59	0.58
150.0	0.69	0.68	0.68	0.67	0.66	0.66	0.65	0.65	0.64	0.63	0.63	0.62	0.61	0.60	0.60	0.59	0.58	0.57	0.57	0.56	0.55
160.0	0.66	0.65	0.65	0.64	0.63	0.63	0.62	0.62	0.61	0.60	0.60	0.59	0.58	0.58	0.57	0.56	0.56	0.55	0.54	0.54	0.53
170.0	0.63	0.62	0.62	0.61	0.61	0.60	0.59	0.59	0.58	0.58	0.57	0.56	0.56	0.55	0.54	0.54	0.53	0.52	0.52	0.51	0.51
180.0	0.60	0.60	0.59	0.59	0.58	0.57	0.57	0.56	0.56	0.55	0.55	0.54	0.53	0.53	0.52	0.52	0.51	0.50	0.50	0.49	0.48
190.0	0.58	0.57	0.57	0.56	0.56	0.55	0.54	0.54	0.53	0.53	0.52	0.52	0.51	0.51	0.50	0.49	0.49	0.48	0.48	0.47	0.46
200.0	0.55	0.55	0.54	0.54	0.53	0.53	0.52	0.52	0.51	0.51	0.50	0.50	0.49	0.49	0.48	0.47	0.47	0.46	0.46	0.45	0.45

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 0.30
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	0.40	0.48	0.55	0.62	0.67	0.72	0.76	0.79	0.81	0.82	0.83	0.84	0.84	0.84	0.83	0.82	0.82	0.81	0.79	0.78	0.77
10.0	0.50	0.55	0.60	0.64	0.67	0.70	0.72	0.73	0.74	0.75	0.75	0.75	0.75	0.74	0.74	0.73	0.72	0.72	0.71	0.70	0.69
20.0	0.54	0.58	0.61	0.63	0.65	0.66	0.67	0.68	0.68	0.68	0.68	0.68	0.68	0.67	0.67	0.66	0.65	0.65	0.64	0.63	0.62
30.0	0.55	0.57	0.59	0.60	0.61	0.62	0.62	0.63	0.63	0.63	0.62	0.62	0.62	0.61	0.61	0.60	0.60	0.59	0.58	0.58	0.57
40.0	0.54	0.55	0.56	0.57	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.57	0.57	0.56	0.56	0.55	0.55	0.54	0.54	0.53	0.53
50.0	0.52	0.53	0.53	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.53	0.53	0.53	0.52	0.52	0.51	0.51	0.50	0.50	0.49	0.49
60.0	0.50	0.50	0.51	0.51	0.51	0.51	0.51	0.51	0.50	0.50	0.50	0.49	0.49	0.49	0.48	0.48	0.48	0.47	0.47	0.46	0.46
70.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.47	0.47	0.47	0.47	0.46	0.46	0.46	0.45	0.45	0.45	0.44	0.44	0.44	0.43
80.0	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.44	0.44	0.44	0.43	0.43	0.43	0.43	0.42	0.42	0.42	0.41	0.41
90.0	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.42	0.42	0.42	0.42	0.41	0.41	0.41	0.41	0.40	0.40	0.40	0.40	0.39	0.39
100.0	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.40	0.40	0.40	0.40	0.39	0.39	0.39	0.39	0.38	0.38	0.38	0.38	0.37	0.37
110.0	0.39	0.39	0.39	0.39	0.39	0.39	0.38	0.38	0.38	0.38	0.38	0.38	0.37	0.37	0.37	0.37	0.37	0.36	0.36	0.36	0.36
120.0	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.36	0.36	0.36	0.36	0.36	0.36	0.35	0.35	0.35	0.35	0.35	0.34	0.34
130.0	0.36	0.36	0.36	0.36	0.36	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.34	0.34	0.34	0.34	0.34	0.34	0.33	0.33	0.33
140.0	0.35	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.32	0.32	0.32	0.32
150.0	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.31	0.31	0.31	0.31	0.31
160.0	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.30	0.30	0.30	0.30
170.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.29	0.29	0.29
180.0	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
190.0	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
200.0	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.27	0.27	0.27

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 0.30
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	10.26	11.07	11.70	12.14	12.41	12.53	12.52	12.41	12.21	11.96	11.67	11.34	11.00	10.65	10.29	9.94	9.59	9.25	8.92	8.60	8.29
10.0	10.85	11.20	11.40	11.49	11.47	11.38	11.22	11.01	10.76	10.49	10.20	9.90	9.60	9.30	9.00	8.70	8.41	8.13	7.86	7.60	7.35
20.0	10.60	10.67	10.65	10.56	10.42	10.24	10.03	9.79	9.55	9.29	9.03	8.76	8.50	8.24	7.98	7.73	7.49	7.26	7.03	6.81	6.60
30.0	9.97	9.89	9.76	9.60	9.42	9.21	9.00	8.77	8.54	8.30	8.07	7.84	7.61	7.38	7.17	6.95	6.75	6.55	6.36	6.17	5.99
40.0	9.21	9.07	8.90	8.72	8.53	8.32	8.12	7.91	7.70	7.49	7.28	7.08	6.88	6.68	6.49	6.31	6.13	5.96	5.80	5.64	5.49
50.0	8.46	8.30	8.12	7.94	7.75	7.56	7.37	7.18	6.99	6.80	6.62	6.44	6.27	6.10	5.93	5.77	5.62	5.47	5.33	5.19	5.05
60.0	7.76	7.60	7.43	7.25	7.08	6.90	6.73	6.55	6.39	6.22	6.06	5.90	5.75	5.60	5.46	5.32	5.19	5.06	4.93	4.81	4.70
70.0	7.14	6.98	6.81	6.65	6.49	6.33	6.17	6.02	5.87	5.72	5.58	5.44	5.31	5.18	5.05	4.93	4.81	4.70	4.59	4.49	4.39
80.0	6.58	6.43	6.28	6.13	5.98	5.84	5.70	5.56	5.43	5.30	5.17	5.05	4.93	4.81	4.70	4.60	4.49	4.39	4.30	4.21	4.12
90.0	6.08	5.94	5.81	5.67	5.54	5.41	5.28	5.16	5.04	4.92	4.81	4.70	4.60	4.50	4.40	4.30	4.21	4.13	4.04	3.96	3.88
100.0	5.64	5.52	5.39	5.27	5.15	5.03	4.92	4.81	4.70	4.60	4.50	4.40	4.31	4.22	4.13	4.05	3.97	3.89	3.82	3.74	3.67
110.0	5.25	5.14	5.02	4.91	4.81	4.70	4.60	4.50	4.41	4.32	4.23	4.14	4.06	3.98	3.90	3.82	3.75	3.68	3.62	3.55	3.49
120.0	4.91	4.80	4.70	4.60	4.50	4.41	4.32	4.23	4.15	4.06	3.98	3.91	3.83	3.76	3.69	3.63	3.56	3.50	3.44	3.38	3.32
130.0	4.60	4.51	4.41	4.32	4.24	4.15	4.07	3.99	3.92	3.84	3.77	3.70	3.64	3.57	3.51	3.45	3.39	3.34	3.28	3.23	3.18
140.0	4.33	4.24	4.16	4.08	4.00	3.92	3.85	3.78	3.71	3.64	3.58	3.52	3.46	3.40	3.35	3.29	3.24	3.19	3.14	3.09	3.05
150.0	4.08	4.01	3.93	3.86	3.79	3.72	3.65	3.59	3.53	3.47	3.41	3.35	3.30	3.25	3.20	3.15	3.10	3.06	3.01	2.97	2.93
160.0	3.87	3.80	3.73	3.66	3.60	3.54	3.48	3.42	3.36	3.31	3.26	3.21	3.16	3.11	3.07	3.02	2.98	2.94	2.90	2.86	2.82
170.0	3.67	3.61	3.55	3.49	3.43	3.37	3.32	3.27	3.22	3.17	3.12	3.07	3.03	2.99	2.95	2.90	2.87	2.83	2.79	2.75	2.72
180.0	3.50	3.44	3.38	3.33	3.28	3.23	3.18	3.13	3.08	3.04	3.00	2.95	2.91	2.87	2.84	2.80	2.76	2.73	2.69	2.66	2.63
190.0	3.34	3.28	3.23	3.19	3.14	3.09	3.05	3.00	2.96	2.92	2.88	2.84	2.81	2.77	2.74	2.70	2.67	2.64	2.60	2.57	2.54
200.0	3.19	3.15	3.10	3.06	3.01	2.97	2.93	2.89	2.85	2.82	2.78	2.75	2.71	2.68	2.65	2.61	2.58	2.55	2.52	2.49	2.47

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 0.50
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	1.94	2.07	2.17	2.24	2.28	2.31	2.31	2.30	2.28	2.26	2.22	2.18	2.14	2.09	2.04	1.99	1.94	1.89	1.84	1.79	1.74
10.0	1.85	1.92	1.96	1.98	2.00	2.00	1.99	1.98	1.95	1.93	1.90	1.87	1.83	1.79	1.76	1.72	1.68	1.64	1.60	1.56	1.52
20.0	1.72	1.75	1.76	1.77	1.77	1.76	1.75	1.73	1.71	1.69	1.66	1.63	1.60	1.57	1.54	1.51	1.48	1.45	1.42	1.39	1.36
30.0	1.58	1.59	1.59	1.59	1.58	1.57	1.56	1.54	1.52	1.50	1.48	1.45	1.43	1.40	1.38	1.35	1.33	1.30	1.27	1.25	1.22
40.0	1.45	1.45	1.45	1.44	1.43	1.42	1.40	1.39	1.37	1.35	1.33	1.31	1.29	1.27	1.25	1.22	1.20	1.18	1.16	1.13	1.11
50.0	1.34	1.33	1.33	1.32	1.31	1.29	1.28	1.26	1.25	1.23	1.21	1.19	1.17	1.16	1.14	1.12	1.10	1.08	1.06	1.04	1.02
60.0	1.23	1.23	1.22	1.21	1.20	1.19	1.17	1.16	1.14	1.13	1.11	1.09	1.08	1.06	1.04	1.03	1.01	0.99	0.97	0.96	0.94
70.0	1.14	1.14	1.13	1.12	1.11	1.09	1.08	1.07	1.05	1.04	1.03	1.01	1.00	0.98	0.97	0.95	0.93	0.92	0.90	0.89	0.87
80.0	1.06	1.06	1.05	1.04	1.03	1.01	1.00	0.99	0.98	0.96	0.95	0.94	0.92	0.91	0.90	0.88	0.87	0.86	0.84	0.83	0.81
90.0	0.99	0.99	0.98	0.97	0.96	0.95	0.93	0.92	0.91	0.90	0.89	0.88	0.86	0.85	0.84	0.83	0.81	0.80	0.79	0.77	0.76
100.0	0.93	0.92	0.91	0.90	0.90	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.79	0.77	0.76	0.75	0.74	0.73	0.72
110.0	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.79	0.78	0.77	0.76	0.75	0.74	0.73	0.72	0.71	0.70	0.69	0.68
120.0	0.83	0.82	0.81	0.80	0.79	0.78	0.77	0.76	0.76	0.75	0.74	0.73	0.72	0.71	0.70	0.69	0.68	0.67	0.66	0.65	0.64
130.0	0.78	0.77	0.76	0.76	0.75	0.74	0.73	0.72	0.71	0.71	0.70	0.69	0.68	0.67	0.66	0.65	0.64	0.63	0.62	0.62	0.61
140.0	0.74	0.73	0.72	0.72	0.71	0.70	0.69	0.69	0.68	0.67	0.66	0.65	0.64	0.64	0.63	0.62	0.61	0.60	0.59	0.58	0.58
150.0	0.70	0.69	0.69	0.68	0.67	0.67	0.66	0.65	0.64	0.64	0.63	0.62	0.61	0.60	0.60	0.59	0.58	0.57	0.56	0.56	0.55
160.0	0.67	0.66	0.65	0.65	0.64	0.63	0.63	0.62	0.61	0.61	0.60	0.59	0.58	0.58	0.57	0.56	0.55	0.55	0.54	0.53	0.52
170.0	0.64	0.63	0.62	0.62	0.61	0.60	0.60	0.59	0.58	0.58	0.57	0.56	0.56	0.55	0.54	0.54	0.53	0.52	0.51	0.51	0.50
180.0	0.61	0.60	0.60	0.59	0.58	0.58	0.57	0.56	0.56	0.55	0.55	0.54	0.53	0.53	0.52	0.51	0.51	0.50	0.49	0.49	0.48
190.0	0.58	0.58	0.57	0.56	0.56	0.55	0.55	0.54	0.53	0.53	0.52	0.52	0.51	0.50	0.50	0.49	0.49	0.48	0.47	0.47	0.46
200.0	0.56	0.55	0.55	0.54	0.54	0.53	0.52	0.52	0.51	0.51	0.50	0.50	0.49	0.48	0.48	0.47	0.47	0.46	0.45	0.45	0.44

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 0.50
TBP - VOLUME FRACTION - 0.300
UNEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	0.86	0.91	0.96	0.99	1.02	1.03	1.03	1.03	1.03	1.02	1.00	0.99	0.97	0.96	0.94	0.92	0.90	0.88	0.86	0.84	0.82
10.0	0.82	0.85	0.87	0.88	0.89	0.90	0.90	0.89	0.88	0.88	0.86	0.85	0.84	0.83	0.81	0.80	0.78	0.77	0.76	0.74	0.73
20.0	0.77	0.78	0.79	0.79	0.80	0.79	0.79	0.79	0.78	0.77	0.76	0.75	0.74	0.73	0.72	0.71	0.70	0.69	0.68	0.66	0.65
30.0	0.71	0.71	0.72	0.72	0.72	0.71	0.71	0.70	0.70	0.69	0.68	0.68	0.67	0.66	0.65	0.64	0.63	0.62	0.61	0.60	0.60
40.0	0.65	0.66	0.66	0.65	0.65	0.65	0.64	0.64	0.63	0.63	0.62	0.61	0.61	0.60	0.59	0.59	0.58	0.57	0.56	0.56	0.55
50.0	0.60	0.60	0.60	0.60	0.60	0.60	0.59	0.59	0.58	0.58	0.57	0.56	0.56	0.55	0.55	0.54	0.53	0.53	0.52	0.52	0.51
60.0	0.56	0.56	0.56	0.56	0.55	0.55	0.55	0.54	0.54	0.53	0.53	0.52	0.52	0.51	0.51	0.50	0.50	0.49	0.49	0.48	0.48
70.0	0.52	0.52	0.52	0.52	0.52	0.51	0.51	0.51	0.50	0.50	0.49	0.49	0.48	0.48	0.48	0.47	0.47	0.46	0.46	0.45	0.45
80.0	0.49	0.49	0.49	0.49	0.48	0.48	0.48	0.47	0.47	0.47	0.46	0.46	0.46	0.45	0.45	0.44	0.44	0.44	0.43	0.43	0.42
90.0	0.46	0.46	0.46	0.46	0.45	0.45	0.45	0.45	0.44	0.44	0.44	0.43	0.43	0.43	0.42	0.42	0.42	0.41	0.41	0.41	0.40
100.0	0.44	0.44	0.43	0.43	0.43	0.43	0.42	0.42	0.42	0.42	0.41	0.41	0.41	0.41	0.40	0.40	0.40	0.39	0.39	0.39	0.38
110.0	0.42	0.41	0.41	0.41	0.41	0.41	0.40	0.40	0.40	0.40	0.39	0.39	0.39	0.39	0.38	0.38	0.38	0.38	0.37	0.37	0.37
120.0	0.40	0.39	0.39	0.39	0.39	0.39	0.39	0.38	0.38	0.38	0.38	0.37	0.37	0.37	0.37	0.37	0.36	0.36	0.36	0.36	0.35
130.0	0.38	0.38	0.38	0.37	0.37	0.37	0.37	0.37	0.36	0.36	0.36	0.36	0.36	0.36	0.35	0.35	0.35	0.35	0.35	0.34	0.34
140.0	0.36	0.36	0.36	0.36	0.36	0.36	0.35	0.35	0.35	0.35	0.35	0.35	0.34	0.34	0.34	0.34	0.34	0.34	0.33	0.33	0.33
150.0	0.35	0.35	0.35	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.33	0.33	0.33	0.33	0.33	0.33	0.32	0.32	0.32	0.32
160.0	0.34	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.31	0.31	0.31
170.0	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.30	0.30
180.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
190.0	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.29	0.29	0.29	0.29	0.29	0.29	0.29
200.0	0.30	0.30	0.30	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.28	0.28	0.28

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 0.50
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	14.43	14.55	14.51	14.34	14.05	13.70	13.29	12.86	12.40	11.94	11.48	11.03	10.59	10.17	9.77	9.38	9.01	8.66	8.32	8.00	7.70
10.0	12.94	12.80	12.58	12.31	11.99	11.64	11.28	10.91	10.54	10.17	9.80	9.45	9.11	8.78	8.46	8.15	7.86	7.58	7.32	7.07	6.83
20.0	11.48	11.25	10.99	10.71	10.40	10.09	9.78	9.47	9.16	8.86	8.56	8.27	7.99	7.73	7.47	7.22	6.99	6.76	6.54	6.34	6.14
30.0	10.20	9.95	9.70	9.43	9.16	8.89	8.62	8.36	8.10	7.84	7.60	7.36	7.13	6.91	6.69	6.49	6.29	6.10	5.92	5.75	5.59
40.0	9.11	8.88	8.64	8.40	8.17	7.93	7.70	7.47	7.25	7.03	6.83	6.62	6.43	6.24	6.06	5.89	5.73	5.57	5.42	5.27	5.13
50.0	8.20	7.98	7.77	7.56	7.35	7.14	6.94	6.75	6.56	6.37	6.20	6.02	5.86	5.70	5.55	5.40	5.26	5.12	4.99	4.87	4.75
60.0	7.43	7.23	7.04	6.86	6.67	6.49	6.32	6.15	5.99	5.83	5.67	5.52	5.38	5.24	5.11	4.99	4.86	4.75	4.63	4.53	4.42
70.0	6.77	6.60	6.43	6.26	6.10	5.95	5.79	5.65	5.50	5.36	5.23	5.10	4.98	4.86	4.74	4.63	4.53	4.43	4.33	4.23	4.14
80.0	6.21	6.06	5.91	5.76	5.62	5.48	5.35	5.22	5.09	4.97	4.85	4.74	4.63	4.53	4.43	4.33	4.24	4.15	4.06	3.98	3.90
90.0	5.73	5.59	5.46	5.33	5.20	5.08	4.96	4.85	4.74	4.63	4.53	4.43	4.33	4.24	4.15	4.07	3.99	3.91	3.83	3.76	3.69
100.0	5.31	5.19	5.07	4.95	4.84	4.73	4.63	4.53	4.43	4.34	4.25	4.16	4.07	3.99	3.92	3.84	3.77	3.70	3.63	3.56	3.50
110.0	4.94	4.83	4.73	4.63	4.53	4.43	4.34	4.25	4.16	4.08	4.00	3.92	3.85	3.77	3.71	3.64	3.57	3.51	3.45	3.39	3.34
120.0	4.62	4.52	4.43	4.34	4.25	4.17	4.08	4.00	3.93	3.85	3.78	3.71	3.65	3.58	3.52	3.46	3.40	3.35	3.29	3.24	3.19
130.0	4.34	4.25	4.17	4.09	4.01	3.93	3.86	3.79	3.72	3.65	3.59	3.53	3.47	3.41	3.35	3.30	3.25	3.20	3.15	3.10	3.05
140.0	4.09	4.01	3.94	3.86	3.79	3.73	3.66	3.60	3.53	3.48	3.42	3.36	3.31	3.26	3.21	3.16	3.11	3.06	3.02	2.98	2.93
150.0	3.87	3.80	3.73	3.67	3.60	3.54	3.48	3.43	3.37	3.32	3.26	3.21	3.17	3.12	3.07	3.03	2.99	2.94	2.90	2.86	2.82
160.0	3.67	3.61	3.55	3.49	3.43	3.38	3.32	3.27	3.22	3.17	3.13	3.08	3.04	2.99	2.95	2.91	2.87	2.83	2.80	2.76	2.72
170.0	3.50	3.44	3.38	3.33	3.28	3.23	3.18	3.13	3.09	3.05	3.00	2.96	2.92	2.88	2.84	2.81	2.77	2.73	2.70	2.67	2.63
180.0	3.34	3.29	3.24	3.19	3.14	3.10	3.05	3.01	2.97	2.93	2.89	2.85	2.81	2.78	2.74	2.71	2.68	2.64	2.61	2.58	2.55
190.0	3.20	3.15	3.10	3.06	3.02	2.98	2.94	2.90	2.86	2.82	2.79	2.75	2.72	2.68	2.65	2.62	2.59	2.56	2.53	2.50	2.47
200.0	3.07	3.02	2.98	2.94	2.90	2.87	2.83	2.79	2.76	2.73	2.69	2.66	2.63	2.60	2.57	2.54	2.51	2.48	2.45	2.43	2.40

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 1.00
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	5.16	4.78	4.45	4.16	3.90	3.67	3.46	3.27	3.10	2.95	2.80	2.67	2.55	2.43	2.33	2.23	2.13	2.05	1.96	1.89	1.81
10.0	3.44	3.29	3.14	3.01	2.88	2.76	2.65	2.54	2.44	2.34	2.25	2.17	2.09	2.01	1.94	1.87	1.80	1.74	1.68	1.62	1.56
20.0	2.65	2.56	2.48	2.39	2.31	2.24	2.16	2.09	2.02	1.96	1.89	1.83	1.77	1.72	1.66	1.61	1.56	1.51	1.46	1.42	1.38
30.0	2.18	2.12	2.06	2.00	1.94	1.89	1.84	1.78	1.73	1.68	1.64	1.59	1.54	1.50	1.46	1.42	1.38	1.34	1.30	1.26	1.23
40.0	1.86	1.81	1.77	1.72	1.68	1.64	1.60	1.56	1.52	1.48	1.44	1.40	1.37	1.33	1.30	1.27	1.23	1.20	1.17	1.14	1.11
50.0	1.62	1.59	1.55	1.52	1.48	1.45	1.42	1.38	1.35	1.32	1.29	1.26	1.23	1.20	1.17	1.14	1.12	1.09	1.06	1.04	1.01
60.0	1.44	1.41	1.38	1.36	1.33	1.30	1.27	1.25	1.22	1.19	1.17	1.14	1.12	1.09	1.07	1.04	1.02	1.00	0.97	0.95	0.93
70.0	1.30	1.27	1.25	1.23	1.20	1.18	1.16	1.13	1.11	1.09	1.07	1.04	1.02	1.00	0.98	0.96	0.94	0.92	0.90	0.88	0.86
80.0	1.18	1.16	1.14	1.12	1.10	1.08	1.06	1.04	1.02	1.00	0.98	0.96	0.94	0.92	0.91	0.89	0.87	0.85	0.83	0.82	0.80
90.0	1.08	1.07	1.05	1.03	1.01	0.99	0.98	0.96	0.94	0.92	0.91	0.89	0.87	0.86	0.84	0.82	0.81	0.79	0.78	0.76	0.75
100.0	1.00	0.99	0.97	0.95	0.94	0.92	0.91	0.89	0.88	0.86	0.84	0.83	0.81	0.80	0.79	0.77	0.76	0.74	0.73	0.71	0.70
110.0	0.93	0.92	0.90	0.89	0.87	0.86	0.85	0.83	0.82	0.80	0.79	0.78	0.76	0.75	0.74	0.72	0.71	0.70	0.68	0.67	0.66
120.0	0.87	0.86	0.84	0.83	0.82	0.80	0.79	0.78	0.77	0.75	0.74	0.73	0.72	0.71	0.69	0.68	0.67	0.66	0.65	0.63	0.62
130.0	0.81	0.80	0.79	0.78	0.77	0.76	0.74	0.73	0.72	0.71	0.70	0.69	0.68	0.67	0.65	0.64	0.63	0.62	0.61	0.60	0.59
140.0	0.77	0.76	0.75	0.73	0.72	0.71	0.70	0.69	0.68	0.67	0.66	0.65	0.64	0.63	0.62	0.61	0.60	0.59	0.58	0.57	0.56
150.0	0.72	0.71	0.70	0.69	0.68	0.67	0.67	0.66	0.65	0.64	0.63	0.62	0.61	0.60	0.59	0.58	0.57	0.56	0.55	0.54	0.53
160.0	0.69	0.68	0.67	0.66	0.65	0.64	0.63	0.62	0.61	0.60	0.60	0.59	0.58	0.57	0.56	0.55	0.54	0.53	0.53	0.52	0.51
170.0	0.65	0.64	0.63	0.63	0.62	0.61	0.60	0.59	0.58	0.58	0.57	0.56	0.55	0.54	0.53	0.53	0.52	0.51	0.50	0.49	0.49
180.0	0.62	0.61	0.60	0.60	0.59	0.58	0.57	0.56	0.56	0.55	0.54	0.53	0.53	0.52	0.51	0.50	0.50	0.49	0.48	0.47	0.46
190.0	0.59	0.58	0.58	0.57	0.56	0.55	0.55	0.54	0.53	0.52	0.52	0.51	0.50	0.50	0.49	0.48	0.47	0.47	0.46	0.45	0.45
200.0	0.57	0.56	0.55	0.54	0.54	0.53	0.52	0.52	0.51	0.50	0.50	0.49	0.48	0.48	0.47	0.46	0.45	0.45	0.44	0.43	0.43

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 1.00
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	2.35	2.18	2.04	1.91	1.80	1.70	1.61	1.53	1.46	1.39	1.33	1.28	1.22	1.18	1.13	1.09	1.05	1.01	0.98	0.95	0.92
10.0	1.58	1.51	1.45	1.40	1.34	1.29	1.25	1.20	1.16	1.12	1.08	1.05	1.01	0.98	0.95	0.92	0.90	0.87	0.85	0.82	0.80
20.0	1.22	1.19	1.15	1.12	1.09	1.06	1.03	1.00	0.97	0.94	0.92	0.89	0.87	0.85	0.83	0.81	0.79	0.77	0.75	0.73	0.72
30.0	1.01	0.99	0.97	0.95	0.92	0.90	0.88	0.86	0.84	0.82	0.80	0.79	0.77	0.75	0.74	0.72	0.70	0.69	0.68	0.66	0.65
40.0	0.87	0.86	0.84	0.82	0.81	0.79	0.78	0.76	0.75	0.73	0.72	0.70	0.69	0.68	0.66	0.65	0.64	0.63	0.62	0.61	0.59
50.0	0.77	0.76	0.74	0.73	0.72	0.71	0.70	0.68	0.67	0.66	0.65	0.64	0.63	0.62	0.61	0.60	0.59	0.58	0.57	0.56	0.55
60.0	0.69	0.68	0.67	0.66	0.65	0.64	0.63	0.62	0.61	0.60	0.60	0.59	0.58	0.57	0.56	0.55	0.54	0.54	0.53	0.52	0.51
70.0	0.63	0.62	0.61	0.61	0.60	0.59	0.58	0.57	0.57	0.56	0.55	0.54	0.54	0.53	0.52	0.52	0.51	0.50	0.50	0.49	0.48
80.0	0.58	0.57	0.57	0.56	0.55	0.55	0.54	0.53	0.53	0.52	0.51	0.51	0.50	0.50	0.49	0.49	0.48	0.47	0.47	0.46	0.46
90.0	0.54	0.53	0.53	0.52	0.52	0.51	0.50	0.50	0.49	0.49	0.48	0.48	0.47	0.47	0.46	0.46	0.45	0.45	0.44	0.44	0.44
100.0	0.50	0.50	0.49	0.49	0.48	0.48	0.48	0.47	0.47	0.46	0.46	0.45	0.45	0.44	0.44	0.44	0.43	0.43	0.42	0.42	0.42
110.0	0.47	0.47	0.47	0.46	0.46	0.45	0.45	0.45	0.44	0.44	0.43	0.43	0.43	0.42	0.42	0.42	0.41	0.41	0.41	0.40	0.40
120.0	0.45	0.44	0.44	0.44	0.43	0.43	0.43	0.42	0.42	0.42	0.41	0.41	0.41	0.41	0.40	0.40	0.40	0.39	0.39	0.39	0.38
130.0	0.43	0.42	0.42	0.42	0.41	0.41	0.41	0.41	0.40	0.40	0.40	0.39	0.39	0.39	0.39	0.38	0.38	0.38	0.38	0.37	0.37
140.0	0.41	0.40	0.40	0.40	0.40	0.39	0.39	0.39	0.39	0.38	0.38	0.38	0.38	0.37	0.37	0.37	0.37	0.37	0.36	0.36	0.36
150.0	0.39	0.39	0.39	0.38	0.38	0.38	0.38	0.38	0.37	0.37	0.37	0.37	0.36	0.36	0.36	0.36	0.36	0.35	0.35	0.35	0.35
160.0	0.37	0.37	0.37	0.37	0.37	0.37	0.36	0.36	0.36	0.36	0.36	0.36	0.35	0.35	0.35	0.35	0.35	0.34	0.34	0.34	0.34
170.0	0.36	0.36	0.36	0.36	0.36	0.35	0.35	0.35	0.35	0.35	0.35	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.33	0.33	0.33
180.0	0.35	0.35	0.35	0.35	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.32	0.32
190.0	0.34	0.34	0.34	0.34	0.34	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
200.0	0.33	0.33	0.33	0.33	0.33	0.33	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.31	0.31	0.31	0.31	0.31

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 1.00
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	19.90	18.24	16.81	15.57	14.49	13.53	12.68	11.91	11.23	10.61	10.04	9.53	9.06	8.64	8.24	7.88	7.54	7.23	6.95	6.68	6.43
10.0	14.07	13.27	12.54	11.86	11.24	10.67	10.15	9.66	9.21	8.80	8.41	8.06	7.73	7.42	7.13	6.86	6.61	6.37	6.15	5.95	5.75
20.0	11.19	10.67	10.19	9.74	9.32	8.92	8.55	8.21	7.88	7.58	7.29	7.02	6.77	6.54	6.31	6.10	5.91	5.72	5.55	5.38	5.22
30.0	9.36	9.01	8.66	8.33	8.01	7.72	7.44	7.17	6.92	6.69	6.46	6.25	6.05	5.87	5.69	5.52	5.36	5.21	5.06	4.93	4.80
40.0	8.12	7.83	7.56	7.30	7.06	6.82	6.60	6.39	6.19	6.00	5.82	5.65	5.49	5.34	5.19	5.05	4.92	4.79	4.67	4.55	4.44
50.0	7.18	6.95	6.73	6.52	6.32	6.13	5.95	5.78	5.62	5.46	5.31	5.17	5.03	4.91	4.78	4.66	4.55	4.44	4.34	4.24	4.15
60.0	6.44	6.25	6.07	5.90	5.74	5.58	5.43	5.29	5.15	5.02	4.89	4.77	4.66	4.55	4.44	4.34	4.25	4.15	4.06	3.98	3.90
70.0	5.85	5.69	5.54	5.40	5.26	5.13	5.00	4.88	4.76	4.65	4.54	4.44	4.34	4.25	4.16	4.07	3.98	3.90	3.83	3.75	3.68
80.0	5.37	5.23	5.10	4.98	4.86	4.75	4.64	4.53	4.43	4.34	4.24	4.16	4.07	3.99	3.91	3.83	3.76	3.69	3.62	3.55	3.49
90.0	4.96	4.84	4.73	4.63	4.53	4.43	4.33	4.24	4.15	4.07	3.99	3.91	3.84	3.76	3.69	3.63	3.56	3.50	3.44	3.38	3.32
100.0	4.62	4.52	4.42	4.33	4.24	4.15	4.07	3.99	3.91	3.84	3.77	3.70	3.63	3.57	3.51	3.45	3.39	3.33	3.28	3.22	3.17
110.0	4.32	4.23	4.15	4.07	3.99	3.91	3.84	3.77	3.70	3.64	3.57	3.51	3.45	3.40	3.34	3.29	3.24	3.18	3.13	3.09	3.04
120.0	4.07	3.99	3.91	3.84	3.77	3.71	3.64	3.58	3.52	3.46	3.40	3.35	3.30	3.24	3.19	3.14	3.10	3.05	3.01	2.96	2.92
130.0	3.84	3.77	3.71	3.64	3.58	3.52	3.47	3.41	3.36	3.30	3.25	3.20	3.15	3.11	3.06	3.02	2.97	2.93	2.89	2.85	2.81
140.0	3.65	3.58	3.53	3.47	3.41	3.36	3.31	3.26	3.21	3.16	3.12	3.07	3.03	2.98	2.94	2.90	2.86	2.82	2.78	2.75	2.71
150.0	3.47	3.42	3.36	3.31	3.26	3.21	3.17	3.12	3.08	3.03	2.99	2.95	2.91	2.87	2.83	2.80	2.76	2.72	2.69	2.65	2.62
160.0	3.32	3.27	3.22	3.17	3.13	3.08	3.04	3.00	2.96	2.92	2.88	2.84	2.81	2.77	2.73	2.70	2.66	2.63	2.60	2.57	2.53
170.0	3.18	3.13	3.09	3.05	3.01	2.97	2.93	2.89	2.85	2.81	2.78	2.74	2.71	2.68	2.64	2.61	2.58	2.55	2.52	2.48	2.45
180.0	3.05	3.01	2.97	2.93	2.89	2.86	2.82	2.79	2.75	2.72	2.69	2.65	2.62	2.59	2.56	2.53	2.50	2.47	2.44	2.41	2.38
190.0	2.94	2.90	2.86	2.83	2.79	2.76	2.73	2.69	2.66	2.63	2.60	2.57	2.54	2.51	2.48	2.45	2.42	2.40	2.37	2.34	2.31
200.0	2.83	2.80	2.77	2.73	2.70	2.67	2.64	2.61	2.58	2.55	2.52	2.49	2.46	2.44	2.41	2.38	2.35	2.33	2.30	2.28	2.25

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 3.00
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	24.79	13.08	9.10	7.01	5.71	4.82	4.17	3.66	3.27	2.94	2.67	2.44	2.25	2.08	1.93	1.80	1.68	1.58	1.49	1.40	1.32
10.0	6.82	5.63	4.80	4.17	3.69	3.30	2.99	2.72	2.49	2.30	2.13	1.98	1.85	1.73	1.63	1.53	1.45	1.37	1.29	1.23	1.17
20.0	4.14	3.68	3.31	3.01	2.75	2.53	2.34	2.17	2.02	1.89	1.77	1.67	1.57	1.49	1.41	1.33	1.27	1.20	1.15	1.09	1.04
30.0	3.00	2.76	2.55	2.36	2.20	2.05	1.92	1.81	1.70	1.61	1.52	1.44	1.37	1.30	1.24	1.18	1.13	1.08	1.03	0.98	0.94
40.0	2.37	2.21	2.07	1.95	1.83	1.73	1.64	1.55	1.47	1.40	1.33	1.27	1.21	1.16	1.11	1.06	1.01	0.97	0.93	0.90	0.86
50.0	1.96	1.85	1.75	1.66	1.58	1.50	1.43	1.36	1.30	1.24	1.19	1.13	1.09	1.04	1.00	0.96	0.92	0.89	0.85	0.82	0.79
60.0	1.68	1.59	1.52	1.45	1.38	1.32	1.26	1.21	1.16	1.11	1.07	1.03	0.99	0.95	0.91	0.88	0.85	0.82	0.79	0.76	0.73
70.0	1.46	1.40	1.34	1.28	1.23	1.18	1.14	1.09	1.05	1.01	0.97	0.94	0.90	0.87	0.84	0.81	0.78	0.75	0.73	0.70	0.68
80.0	1.30	1.25	1.20	1.15	1.11	1.07	1.03	0.99	0.96	0.92	0.89	0.86	0.83	0.80	0.78	0.75	0.73	0.70	0.68	0.66	0.64
90.0	1.17	1.13	1.09	1.05	1.01	0.98	0.94	0.91	0.88	0.85	0.82	0.80	0.77	0.75	0.72	0.70	0.68	0.66	0.64	0.62	0.60
100.0	1.07	1.03	0.99	0.96	0.93	0.90	0.87	0.84	0.82	0.79	0.77	0.74	0.72	0.70	0.67	0.65	0.63	0.62	0.60	0.58	0.56
110.0	0.98	0.95	0.92	0.89	0.86	0.83	0.81	0.78	0.76	0.74	0.71	0.69	0.67	0.65	0.63	0.61	0.60	0.58	0.56	0.55	0.53
120.0	0.90	0.88	0.85	0.82	0.80	0.78	0.75	0.73	0.71	0.69	0.67	0.65	0.63	0.61	0.60	0.58	0.56	0.55	0.53	0.52	0.50
130.0	0.84	0.81	0.79	0.77	0.75	0.73	0.71	0.69	0.67	0.65	0.63	0.61	0.60	0.58	0.56	0.55	0.53	0.52	0.50	0.49	0.48
140.0	0.78	0.76	0.74	0.72	0.70	0.68	0.66	0.65	0.63	0.61	0.60	0.58	0.56	0.55	0.53	0.52	0.51	0.49	0.48	0.47	0.45
150.0	0.74	0.72	0.70	0.68	0.66	0.64	0.63	0.61	0.59	0.58	0.56	0.55	0.54	0.52	0.51	0.49	0.48	0.47	0.46	0.45	0.43
160.0	0.69	0.68	0.66	0.64	0.63	0.61	0.59	0.58	0.56	0.55	0.54	0.52	0.51	0.50	0.48	0.47	0.46	0.45	0.44	0.43	0.41
170.0	0.65	0.64	0.62	0.61	0.59	0.58	0.56	0.55	0.54	0.52	0.51	0.50	0.49	0.47	0.46	0.45	0.44	0.43	0.42	0.41	0.40
180.0	0.62	0.61	0.59	0.58	0.56	0.55	0.54	0.52	0.51	0.50	0.49	0.48	0.46	0.45	0.44	0.43	0.42	0.41	0.40	0.39	0.38
190.0	0.59	0.58	0.56	0.55	0.54	0.52	0.51	0.50	0.49	0.48	0.47	0.45	0.44	0.43	0.42	0.41	0.40	0.39	0.38	0.37	0.37
200.0	0.56	0.55	0.54	0.52	0.51	0.50	0.49	0.48	0.47	0.46	0.45	0.44	0.43	0.42	0.41	0.40	0.39	0.38	0.37	0.36	0.35

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 3.00
TBP - VOLUME FRACTION - 0.300
UNEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	15.44	8.23	5.78	4.50	3.71	3.16	2.76	2.46	2.21	2.02	1.85	1.71	1.60	1.49	1.40	1.32	1.25	1.19	1.13	1.08	1.03
10.0	4.33	3.61	3.11	2.73	2.44	2.21	2.02	1.86	1.73	1.61	1.51	1.42	1.34	1.27	1.21	1.15	1.10	1.05	1.01	0.97	0.93
20.0	2.68	2.41	2.19	2.01	1.86	1.73	1.61	1.52	1.43	1.35	1.28	1.22	1.16	1.11	1.07	1.02	0.98	0.95	0.91	0.88	0.85
30.0	1.98	1.84	1.72	1.61	1.51	1.43	1.36	1.29	1.23	1.17	1.12	1.08	1.04	1.00	0.96	0.93	0.90	0.87	0.84	0.81	0.79
40.0	1.59	1.51	1.43	1.35	1.29	1.23	1.18	1.13	1.09	1.04	1.01	0.97	0.94	0.91	0.88	0.85	0.82	0.80	0.78	0.76	0.74
50.0	1.35	1.29	1.23	1.18	1.13	1.09	1.05	1.01	0.98	0.95	0.91	0.89	0.86	0.83	0.81	0.79	0.77	0.75	0.73	0.71	0.69
60.0	1.17	1.13	1.09	1.05	1.01	0.98	0.95	0.92	0.89	0.87	0.84	0.82	0.80	0.78	0.76	0.74	0.72	0.70	0.69	0.67	0.66
70.0	1.05	1.01	0.98	0.95	0.92	0.90	0.87	0.85	0.83	0.80	0.78	0.76	0.75	0.73	0.71	0.70	0.68	0.67	0.65	0.64	0.62
80.0	0.95	0.92	0.90	0.87	0.85	0.83	0.81	0.79	0.77	0.75	0.74	0.72	0.70	0.69	0.67	0.66	0.65	0.63	0.62	0.61	0.60
90.0	0.87	0.85	0.83	0.81	0.79	0.78	0.76	0.74	0.73	0.71	0.70	0.68	0.67	0.65	0.64	0.63	0.62	0.61	0.60	0.58	0.57
100.0	0.81	0.79	0.78	0.76	0.74	0.73	0.71	0.70	0.69	0.67	0.66	0.65	0.64	0.63	0.61	0.60	0.59	0.58	0.57	0.56	0.55
110.0	0.76	0.75	0.73	0.72	0.70	0.69	0.68	0.67	0.65	0.64	0.63	0.62	0.61	0.60	0.59	0.58	0.57	0.56	0.55	0.54	0.54
120.0	0.72	0.71	0.69	0.68	0.67	0.66	0.65	0.64	0.63	0.62	0.61	0.60	0.59	0.58	0.57	0.56	0.55	0.54	0.54	0.53	0.52
130.0	0.68	0.67	0.66	0.65	0.64	0.63	0.62	0.61	0.60	0.59	0.58	0.58	0.57	0.56	0.55	0.54	0.54	0.53	0.52	0.51	0.51
140.0	0.65	0.64	0.63	0.62	0.62	0.61	0.60	0.59	0.58	0.57	0.56	0.56	0.55	0.54	0.53	0.53	0.52	0.51	0.51	0.50	0.49
150.0	0.63	0.62	0.61	0.60	0.59	0.59	0.58	0.57	0.56	0.56	0.55	0.54	0.53	0.53	0.52	0.51	0.51	0.50	0.50	0.49	0.48
160.0	0.60	0.60	0.59	0.58	0.57	0.57	0.56	0.55	0.55	0.54	0.53	0.53	0.52	0.51	0.51	0.50	0.50	0.49	0.48	0.48	0.47
170.0	0.58	0.58	0.57	0.56	0.56	0.55	0.54	0.54	0.53	0.53	0.52	0.51	0.51	0.50	0.50	0.49	0.49	0.48	0.47	0.47	0.46
180.0	0.57	0.56	0.55	0.55	0.54	0.54	0.53	0.52	0.52	0.51	0.51	0.50	0.50	0.49	0.49	0.48	0.48	0.47	0.47	0.46	0.46
190.0	0.55	0.55	0.54	0.53	0.53	0.52	0.52	0.51	0.51	0.50	0.50	0.49	0.49	0.48	0.48	0.47	0.47	0.46	0.46	0.45	0.45
200.0	0.54	0.53	0.53	0.52	0.52	0.51	0.51	0.50	0.50	0.49	0.49	0.48	0.48	0.47	0.47	0.46	0.46	0.46	0.45	0.45	0.44

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 3.00
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	22.09	14.90	11.97	10.25	9.08	8.22	7.54	6.99	6.54	6.15	5.82	5.52	5.26	5.03	4.82	4.62	4.45	4.29	4.14	4.00	3.87
10.0	10.22	9.11	8.28	7.62	7.08	6.63	6.25	5.91	5.62	5.36	5.12	4.91	4.71	4.54	4.37	4.22	4.08	3.95	3.83	3.71	3.60
20.0	7.66	7.14	6.70	6.32	5.99	5.70	5.44	5.20	4.99	4.80	4.62	4.45	4.30	4.16	4.03	3.90	3.79	3.68	3.57	3.48	3.38
30.0	6.36	6.04	5.76	5.50	5.27	5.06	4.87	4.69	4.53	4.37	4.23	4.10	3.97	3.86	3.75	3.64	3.54	3.45	3.36	3.28	3.19
40.0	5.55	5.32	5.12	4.93	4.75	4.59	4.44	4.30	4.16	4.04	3.92	3.81	3.71	3.61	3.51	3.42	3.34	3.26	3.18	3.10	3.03
50.0	4.97	4.80	4.64	4.49	4.35	4.22	4.10	3.98	3.87	3.77	3.67	3.57	3.48	3.40	3.32	3.24	3.16	3.09	3.02	2.95	2.89
60.0	4.54	4.40	4.27	4.15	4.04	3.93	3.82	3.72	3.63	3.54	3.45	3.37	3.29	3.22	3.14	3.07	3.01	2.94	2.88	2.82	2.76
70.0	4.20	4.08	3.97	3.87	3.77	3.68	3.59	3.51	3.42	3.34	3.27	3.20	3.13	3.06	2.99	2.93	2.87	2.81	2.75	2.70	2.64
80.0	3.91	3.82	3.73	3.64	3.55	3.47	3.39	3.32	3.25	3.18	3.11	3.04	2.98	2.92	2.86	2.80	2.75	2.69	2.64	2.59	2.54
90.0	3.68	3.60	3.52	3.44	3.36	3.29	3.22	3.16	3.09	3.03	2.97	2.91	2.85	2.80	2.74	2.69	2.64	2.59	2.54	2.49	2.45
100.0	3.48	3.41	3.33	3.27	3.20	3.13	3.07	3.01	2.95	2.90	2.84	2.79	2.73	2.68	2.63	2.59	2.54	2.49	2.45	2.40	2.36
110.0	3.30	3.24	3.18	3.11	3.05	3.00	2.94	2.88	2.83	2.78	2.73	2.68	2.63	2.58	2.54	2.49	2.45	2.40	2.36	2.32	2.28
120.0	3.15	3.09	3.04	2.98	2.92	2.87	2.82	2.77	2.72	2.67	2.62	2.58	2.53	2.49	2.45	2.41	2.36	2.32	2.29	2.25	2.21
130.0	3.02	2.96	2.91	2.86	2.81	2.76	2.71	2.66	2.62	2.57	2.53	2.49	2.45	2.41	2.37	2.33	2.29	2.25	2.21	2.18	2.14
140.0	2.89	2.85	2.80	2.75	2.70	2.66	2.61	2.57	2.53	2.49	2.45	2.41	2.37	2.33	2.29	2.25	2.22	2.18	2.15	2.11	2.08
150.0	2.79	2.74	2.69	2.65	2.61	2.57	2.52	2.48	2.44	2.40	2.37	2.33	2.29	2.26	2.22	2.19	2.15	2.12	2.09	2.05	2.02
160.0	2.69	2.64	2.60	2.56	2.52	2.48	2.44	2.40	2.37	2.33	2.29	2.26	2.22	2.19	2.16	2.12	2.09	2.06	2.03	2.00	1.97
170.0	2.59	2.55	2.52	2.48	2.44	2.40	2.37	2.33	2.29	2.26	2.23	2.19	2.16	2.13	2.10	2.06	2.03	2.00	1.97	1.94	1.91
180.0	2.51	2.47	2.44	2.40	2.36	2.33	2.30	2.26	2.23	2.20	2.16	2.13	2.10	2.07	2.04	2.01	1.98	1.95	1.92	1.89	1.87
190.0	2.43	2.40	2.36	2.33	2.30	2.26	2.23	2.20	2.17	2.13	2.10	2.07	2.04	2.01	1.99	1.96	1.93	1.90	1.87	1.85	1.82
200.0	2.36	2.33	2.30	2.26	2.23	2.20	2.17	2.14	2.11	2.08	2.05	2.02	1.99	1.96	1.94	1.91	1.88	1.86	1.83	1.80	1.78

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 5.00
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	32.61	10.59	6.60	4.83	3.80	3.14	2.66	2.31	2.03	1.81	1.63	1.48	1.35	1.24	1.15	1.07	0.99	0.93	0.87	0.81	0.77
10.0	6.94	5.04	3.96	3.26	2.76	2.39	2.10	1.87	1.69	1.53	1.40	1.28	1.19	1.10	1.02	0.95	0.89	0.84	0.79	0.74	0.70
20.0	4.12	3.38	2.86	2.47	2.18	1.94	1.74	1.58	1.44	1.33	1.22	1.13	1.05	0.98	0.92	0.86	0.81	0.77	0.72	0.69	0.65
30.0	2.96	2.56	2.25	2.00	1.80	1.63	1.49	1.37	1.26	1.17	1.09	1.01	0.95	0.89	0.84	0.79	0.75	0.71	0.67	0.64	0.60
40.0	2.32	2.07	1.86	1.68	1.54	1.41	1.30	1.21	1.12	1.05	0.98	0.92	0.86	0.81	0.77	0.73	0.69	0.65	0.62	0.59	0.56
50.0	1.92	1.74	1.59	1.45	1.34	1.24	1.16	1.08	1.01	0.95	0.89	0.84	0.79	0.75	0.71	0.67	0.64	0.61	0.58	0.55	0.53
60.0	1.63	1.50	1.38	1.28	1.19	1.11	1.04	0.98	0.92	0.86	0.82	0.77	0.73	0.69	0.66	0.63	0.60	0.57	0.54	0.52	0.50
70.0	1.43	1.32	1.23	1.15	1.07	1.01	0.95	0.89	0.84	0.80	0.75	0.71	0.68	0.65	0.62	0.59	0.56	0.53	0.51	0.49	0.47
80.0	1.27	1.18	1.10	1.04	0.97	0.92	0.87	0.82	0.78	0.74	0.70	0.67	0.63	0.60	0.58	0.55	0.53	0.50	0.48	0.46	0.44
90.0	1.14	1.07	1.00	0.95	0.89	0.84	0.80	0.76	0.72	0.69	0.65	0.62	0.59	0.57	0.54	0.52	0.50	0.48	0.46	0.44	0.42
100.0	1.04	0.98	0.92	0.87	0.82	0.78	0.74	0.71	0.67	0.64	0.61	0.58	0.56	0.53	0.51	0.49	0.47	0.45	0.43	0.42	0.40
110.0	0.95	0.90	0.85	0.81	0.77	0.73	0.69	0.66	0.63	0.60	0.58	0.55	0.53	0.51	0.48	0.47	0.45	0.43	0.41	0.40	0.38
120.0	0.88	0.83	0.79	0.75	0.72	0.68	0.65	0.62	0.59	0.57	0.54	0.52	0.50	0.48	0.46	0.44	0.42	0.41	0.39	0.38	0.36
130.0	0.81	0.77	0.74	0.70	0.67	0.64	0.61	0.59	0.56	0.54	0.52	0.49	0.47	0.46	0.44	0.42	0.40	0.39	0.38	0.36	0.35
140.0	0.76	0.73	0.69	0.66	0.63	0.60	0.58	0.55	0.53	0.51	0.49	0.47	0.45	0.43	0.42	0.40	0.39	0.37	0.36	0.35	0.33
150.0	0.71	0.68	0.65	0.62	0.60	0.57	0.55	0.53	0.50	0.48	0.47	0.45	0.43	0.41	0.40	0.38	0.37	0.36	0.34	0.33	0.32
160.0	0.67	0.64	0.62	0.59	0.57	0.54	0.52	0.50	0.48	0.46	0.44	0.43	0.41	0.40	0.38	0.37	0.35	0.34	0.33	0.32	0.31
170.0	0.64	0.61	0.58	0.56	0.54	0.52	0.50	0.48	0.46	0.44	0.42	0.41	0.39	0.38	0.37	0.35	0.34	0.33	0.32	0.31	0.30
180.0	0.60	0.58	0.55	0.53	0.51	0.49	0.47	0.46	0.44	0.42	0.41	0.39	0.38	0.36	0.35	0.34	0.33	0.32	0.31	0.29	0.28
190.0	0.57	0.55	0.53	0.51	0.49	0.47	0.45	0.44	0.42	0.40	0.39	0.38	0.36	0.35	0.34	0.33	0.31	0.30	0.29	0.28	0.27
200.0	0.55	0.52	0.50	0.49	0.47	0.45	0.43	0.42	0.40	0.39	0.37	0.36	0.35	0.34	0.33	0.31	0.30	0.29	0.28	0.27	0.27

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 5.00
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	33.63	11.07	6.99	5.18	4.14	3.46	2.98	2.62	2.34	2.11	1.93	1.78	1.65	1.53	1.44	1.35	1.28	1.21	1.15	1.09	1.04
10.0	7.33	5.39	4.29	3.58	3.08	2.70	2.41	2.18	1.99	1.83	1.69	1.58	1.48	1.39	1.31	1.24	1.18	1.12	1.07	1.02	0.98
20.0	4.45	3.70	3.18	2.79	2.48	2.24	2.04	1.88	1.74	1.62	1.52	1.43	1.35	1.27	1.21	1.15	1.10	1.05	1.01	0.97	0.93
30.0	3.28	2.87	2.56	2.31	2.10	1.93	1.79	1.67	1.56	1.47	1.38	1.31	1.24	1.18	1.13	1.08	1.03	0.99	0.95	0.92	0.89
40.0	2.63	2.38	2.16	1.99	1.84	1.71	1.60	1.51	1.42	1.34	1.28	1.21	1.16	1.11	1.06	1.02	0.98	0.94	0.91	0.88	0.85
50.0	2.23	2.04	1.89	1.76	1.65	1.55	1.46	1.38	1.31	1.25	1.19	1.14	1.09	1.04	1.00	0.97	0.93	0.90	0.87	0.84	0.81
60.0	1.94	1.81	1.69	1.59	1.50	1.42	1.34	1.28	1.22	1.17	1.12	1.07	1.03	0.99	0.96	0.92	0.89	0.86	0.83	0.81	0.79
70.0	1.74	1.63	1.54	1.45	1.38	1.31	1.25	1.20	1.15	1.10	1.06	1.02	0.98	0.95	0.91	0.88	0.86	0.83	0.80	0.78	0.76
80.0	1.58	1.49	1.42	1.35	1.29	1.23	1.18	1.13	1.08	1.04	1.01	0.97	0.94	0.91	0.88	0.85	0.83	0.80	0.78	0.76	0.74
90.0	1.46	1.38	1.32	1.26	1.21	1.16	1.11	1.07	1.03	1.00	0.96	0.93	0.90	0.87	0.85	0.82	0.80	0.78	0.76	0.74	0.72
100.0	1.36	1.30	1.24	1.19	1.14	1.10	1.06	1.02	0.99	0.95	0.92	0.90	0.87	0.84	0.82	0.80	0.77	0.75	0.73	0.72	0.70
110.0	1.27	1.22	1.17	1.13	1.09	1.05	1.01	0.98	0.95	0.92	0.89	0.86	0.84	0.82	0.79	0.77	0.75	0.73	0.72	0.70	0.68
120.0	1.20	1.16	1.12	1.08	1.04	1.01	0.97	0.94	0.91	0.89	0.86	0.84	0.82	0.79	0.77	0.75	0.73	0.72	0.70	0.68	0.67
130.0	1.15	1.11	1.07	1.03	1.00	0.97	0.94	0.91	0.89	0.86	0.84	0.81	0.79	0.77	0.75	0.74	0.72	0.70	0.69	0.67	0.66
140.0	1.10	1.06	1.03	0.99	0.96	0.94	0.91	0.88	0.86	0.84	0.81	0.79	0.77	0.75	0.74	0.72	0.70	0.69	0.67	0.66	0.64
150.0	1.05	1.02	0.99	0.96	0.93	0.91	0.88	0.86	0.84	0.81	0.79	0.77	0.76	0.74	0.72	0.71	0.69	0.67	0.66	0.65	0.63
160.0	1.02	0.99	0.96	0.93	0.91	0.88	0.86	0.84	0.82	0.80	0.78	0.76	0.74	0.72	0.71	0.69	0.68	0.66	0.65	0.64	0.62
170.0	0.99	0.96	0.93	0.91	0.88	0.86	0.84	0.82	0.80	0.78	0.76	0.74	0.73	0.71	0.70	0.68	0.67	0.65	0.64	0.63	0.61
180.0	0.96	0.93	0.91	0.88	0.86	0.84	0.82	0.80	0.78	0.76	0.75	0.73	0.71	0.70	0.68	0.67	0.66	0.64	0.63	0.62	0.61
190.0	0.93	0.91	0.89	0.86	0.84	0.82	0.80	0.78	0.77	0.75	0.73	0.72	0.70	0.69	0.67	0.66	0.65	0.64	0.62	0.61	0.60
200.0	0.91	0.89	0.87	0.85	0.83	0.81	0.79	0.77	0.75	0.74	0.72	0.71	0.69	0.68	0.67	0.65	0.64	0.63	0.62	0.60	0.59

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 5.00
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URAN CONC G/L	TRACE	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0
TRACE	18.58	10.23	7.98	6.78	5.98	5.41	4.96	4.61	4.31	4.06	3.84	3.65	3.48	3.33	3.19	3.06	2.95	2.84	2.75	2.66	2.57
10.0	8.24	6.96	6.13	5.53	5.07	4.70	4.39	4.13	3.91	3.71	3.54	3.38	3.24	3.11	3.00	2.89	2.79	2.70	2.61	2.53	2.46
20.0	6.27	5.65	5.17	4.79	4.47	4.20	3.98	3.77	3.60	3.44	3.29	3.16	3.04	2.93	2.83	2.74	2.65	2.57	2.49	2.42	2.35
30.0	5.27	4.88	4.56	4.28	4.05	3.84	3.66	3.49	3.35	3.21	3.09	2.98	2.88	2.78	2.69	2.61	2.53	2.46	2.39	2.32	2.26
40.0	4.64	4.36	4.12	3.91	3.72	3.55	3.40	3.27	3.14	3.03	2.92	2.82	2.73	2.65	2.57	2.49	2.42	2.36	2.29	2.23	2.17
50.0	4.19	3.97	3.78	3.61	3.46	3.32	3.19	3.08	2.97	2.87	2.78	2.69	2.61	2.53	2.46	2.39	2.33	2.26	2.21	2.15	2.10
60.0	3.85	3.67	3.52	3.37	3.24	3.13	3.02	2.91	2.82	2.73	2.65	2.57	2.50	2.43	2.36	2.30	2.24	2.18	2.13	2.08	2.03
70.0	3.57	3.43	3.30	3.18	3.06	2.96	2.86	2.77	2.69	2.61	2.53	2.46	2.40	2.33	2.27	2.22	2.16	2.11	2.06	2.01	1.96
80.0	3.35	3.23	3.11	3.01	2.91	2.82	2.73	2.65	2.57	2.50	2.43	2.37	2.31	2.25	2.19	2.14	2.09	2.04	1.99	1.95	1.91
90.0	3.16	3.06	2.96	2.86	2.77	2.69	2.61	2.54	2.47	2.41	2.34	2.28	2.23	2.17	2.12	2.07	2.02	1.98	1.93	1.89	1.85
100.0	3.00	2.91	2.82	2.73	2.65	2.58	2.51	2.44	2.38	2.32	2.26	2.21	2.15	2.10	2.05	2.01	1.96	1.92	1.88	1.84	1.80
110.0	2.86	2.78	2.70	2.62	2.55	2.48	2.42	2.35	2.30	2.24	2.19	2.13	2.08	2.04	1.99	1.95	1.91	1.86	1.83	1.79	1.75
120.0	2.74	2.66	2.59	2.52	2.45	2.39	2.33	2.27	2.22	2.17	2.12	2.07	2.02	1.98	1.93	1.89	1.85	1.81	1.78	1.74	1.71
130.0	2.63	2.56	2.49	2.43	2.37	2.31	2.25	2.20	2.15	2.10	2.05	2.01	1.96	1.92	1.88	1.84	1.80	1.77	1.73	1.70	1.66
140.0	2.53	2.47	2.41	2.35	2.29	2.24	2.18	2.13	2.08	2.04	1.99	1.95	1.91	1.87	1.83	1.79	1.76	1.72	1.69	1.66	1.62
150.0	2.44	2.38	2.33	2.27	2.22	2.17	2.12	2.07	2.03	1.98	1.94	1.90	1.86	1.82	1.79	1.75	1.72	1.68	1.65	1.62	1.59
160.0	2.36	2.31	2.25	2.20	2.15	2.10	2.06	2.01	1.97	1.93	1.89	1.85	1.81	1.78	1.74	1.71	1.67	1.64	1.61	1.58	1.55
170.0	2.29	2.24	2.19	2.14	2.09	2.05	2.00	1.96	1.92	1.88	1.84	1.80	1.77	1.73	1.70	1.67	1.64	1.61	1.58	1.55	1.52
180.0	2.22	2.17	2.12	2.08	2.03	1.99	1.95	1.91	1.87	1.83	1.80	1.76	1.73	1.69	1.66	1.63	1.60	1.57	1.54	1.51	1.49
190.0	2.16	2.11	2.07	2.02	1.98	1.94	1.90	1.86	1.83	1.79	1.75	1.72	1.69	1.66	1.63	1.60	1.57	1.54	1.51	1.48	1.46
200.0	2.10	2.06	2.01	1.97	1.93	1.89	1.86	1.82	1.78	1.75	1.72	1.68	1.65	1.62	1.59	1.56	1.53	1.51	1.48	1.45	1.43

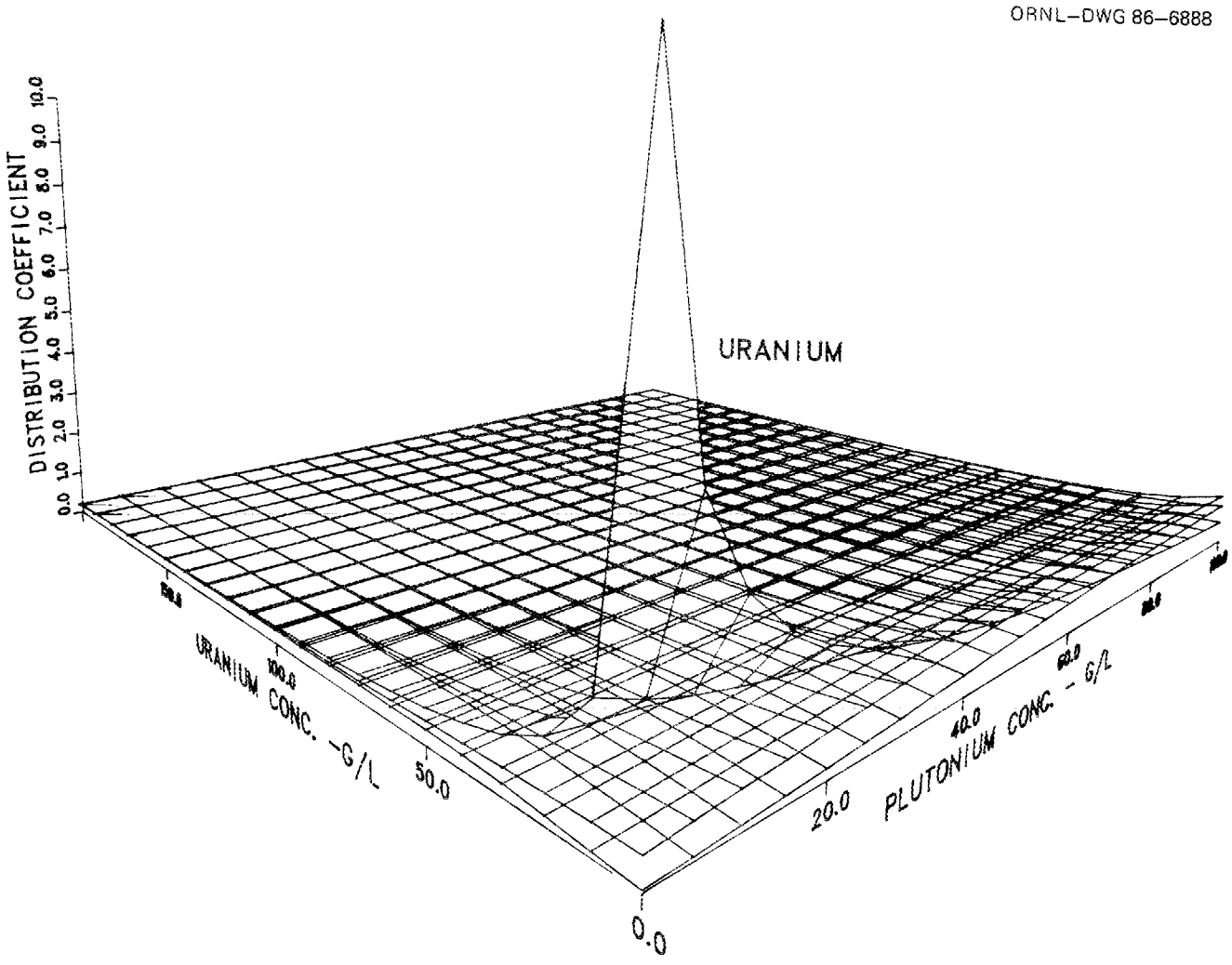

Fig. A.1. Distribution coefficient map for uranium in the acid-water/TBP system containing 0 to 200 g/L U, 0 to 100 g/L Pu(IV), 0.1-*M* HNO_3, 0.5 *M* HNO_3, 5 *M* HNO_3, in the aqueous phase, and 10% TBP at 25°C.

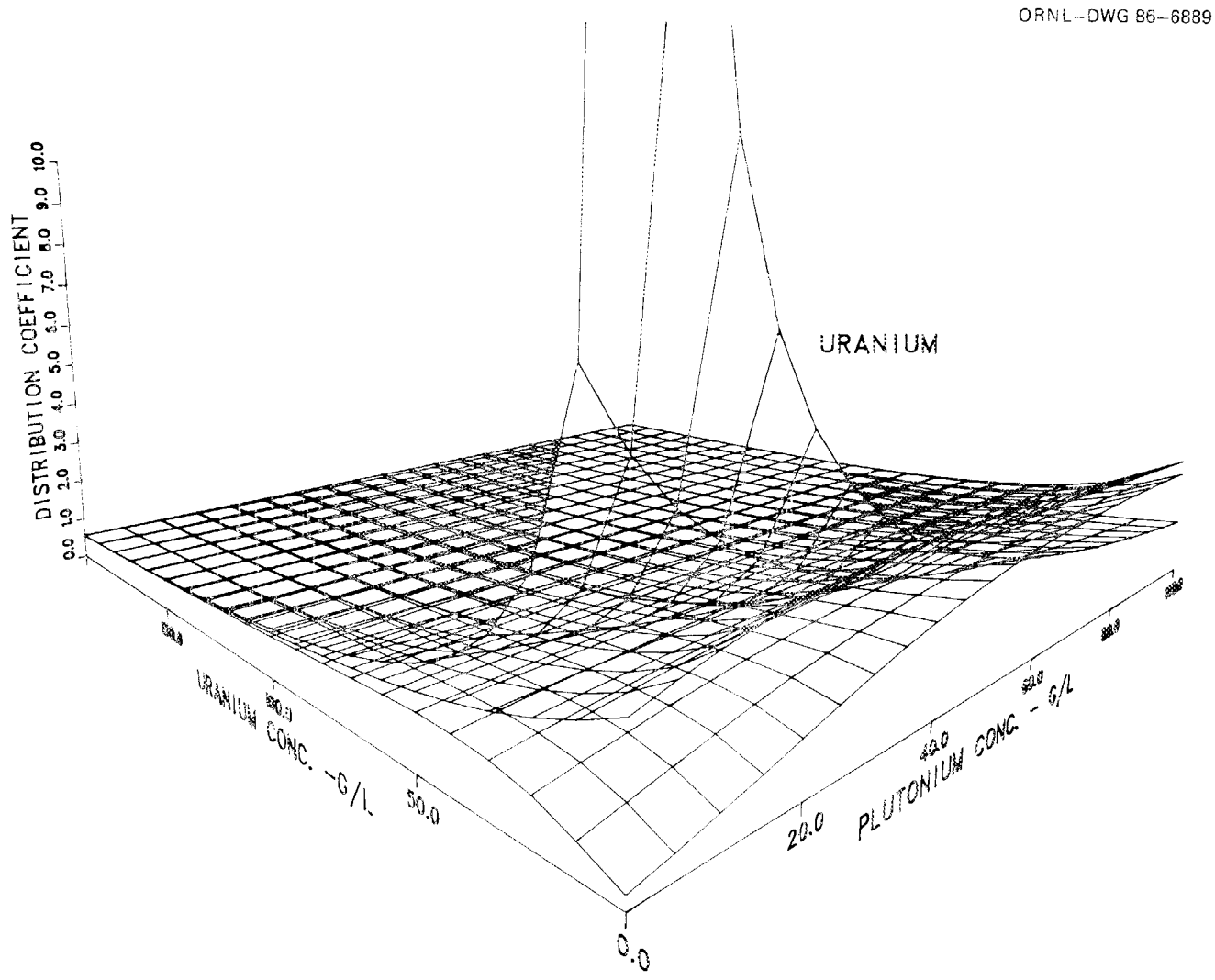

Fig. A.2. Distribution coefficient map for uranium in the acid-water/TBP system containing 0 to 200 g/L U, 0 to 100 g/L Pu(IV), 0.1-*M* HNO_3, 0.5 *M* HNO_3, 5 *M* HNO_3, in the aqueous phase, and 30% TBP at 25°C.

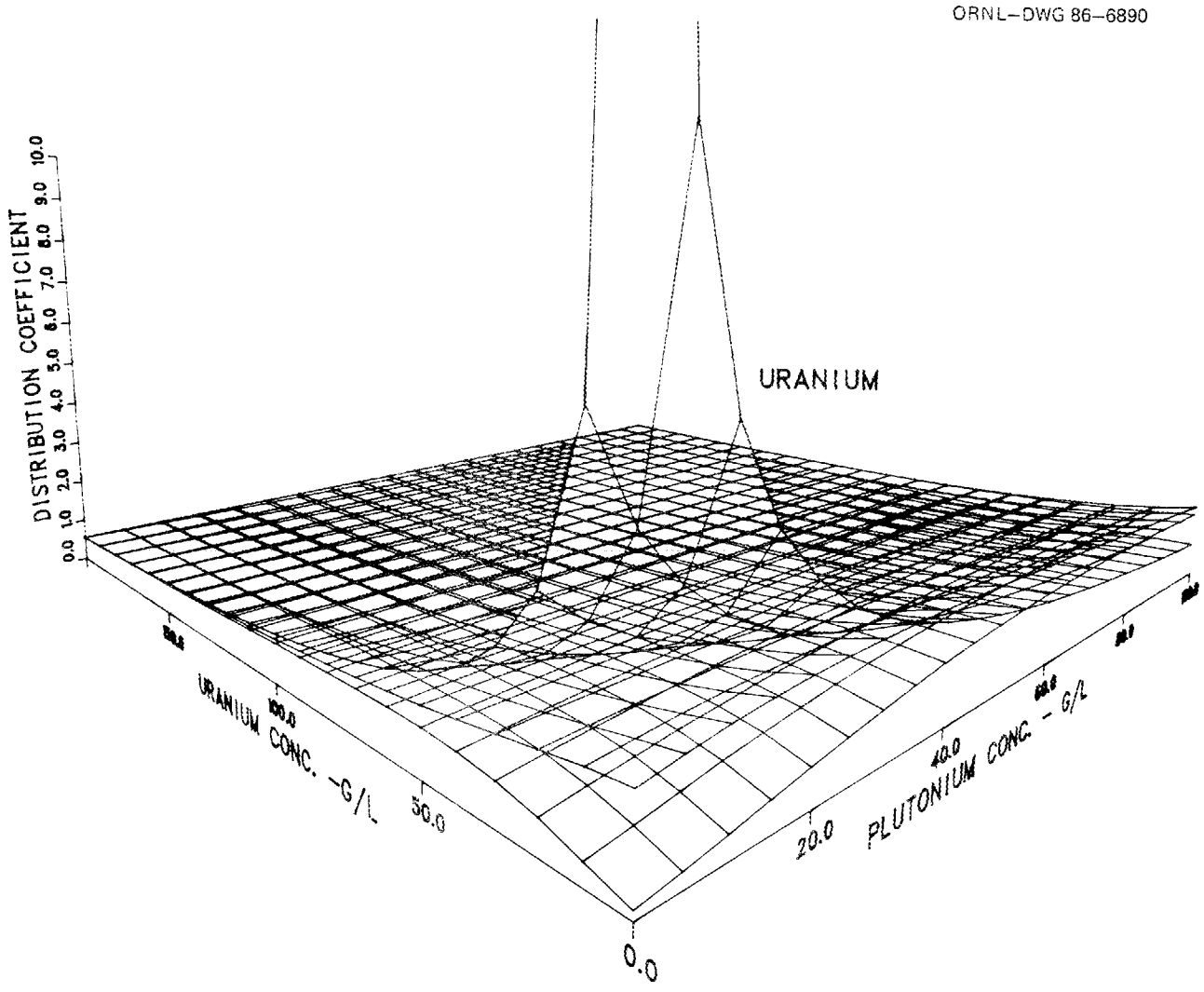

Fig. A.3. Distribution coefficient map for uranium in the acid-water/TBP system containing 0 to 200 g/L U, 0 to 100 g/L Pu(IV), 0.1-*M* HNO_3, 0.5 *M* HNO_3, 5 *M* HNO_3, in the aqueous phase, and 30% TBP at 40°C.

ORNL-DWG 86-6891

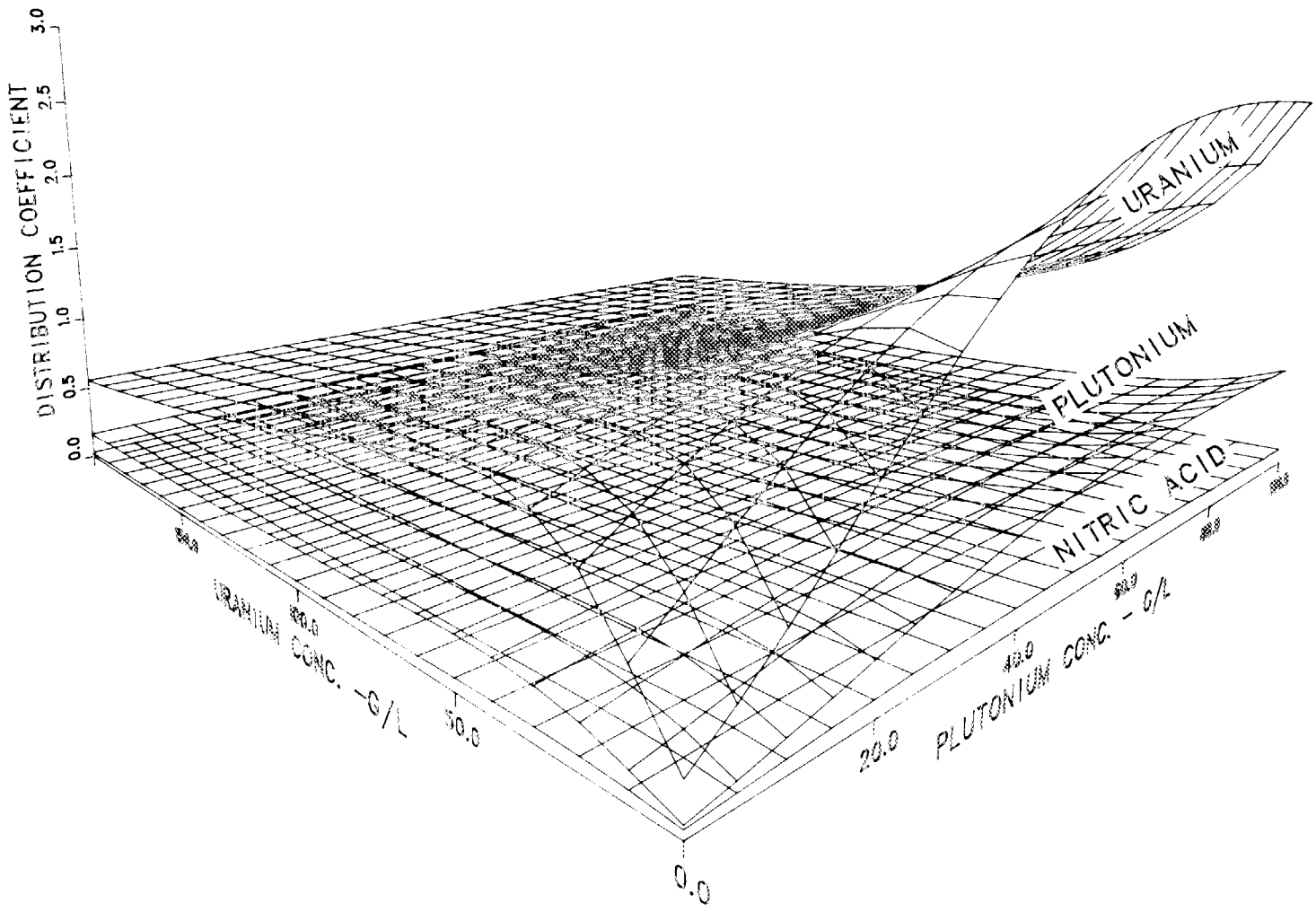

Fig. A.4. Distribution coefficient map for uranium, Pu(IV), and nitric acid in the acid-water/TBP system containing 0 to 200 g/L U, 0 to 100 g/L Pu(IV), 0.1-*M* HNO_3 in the aqueous phase, and 30% TBP at 25°C.

ORNL–DWG 86–6892

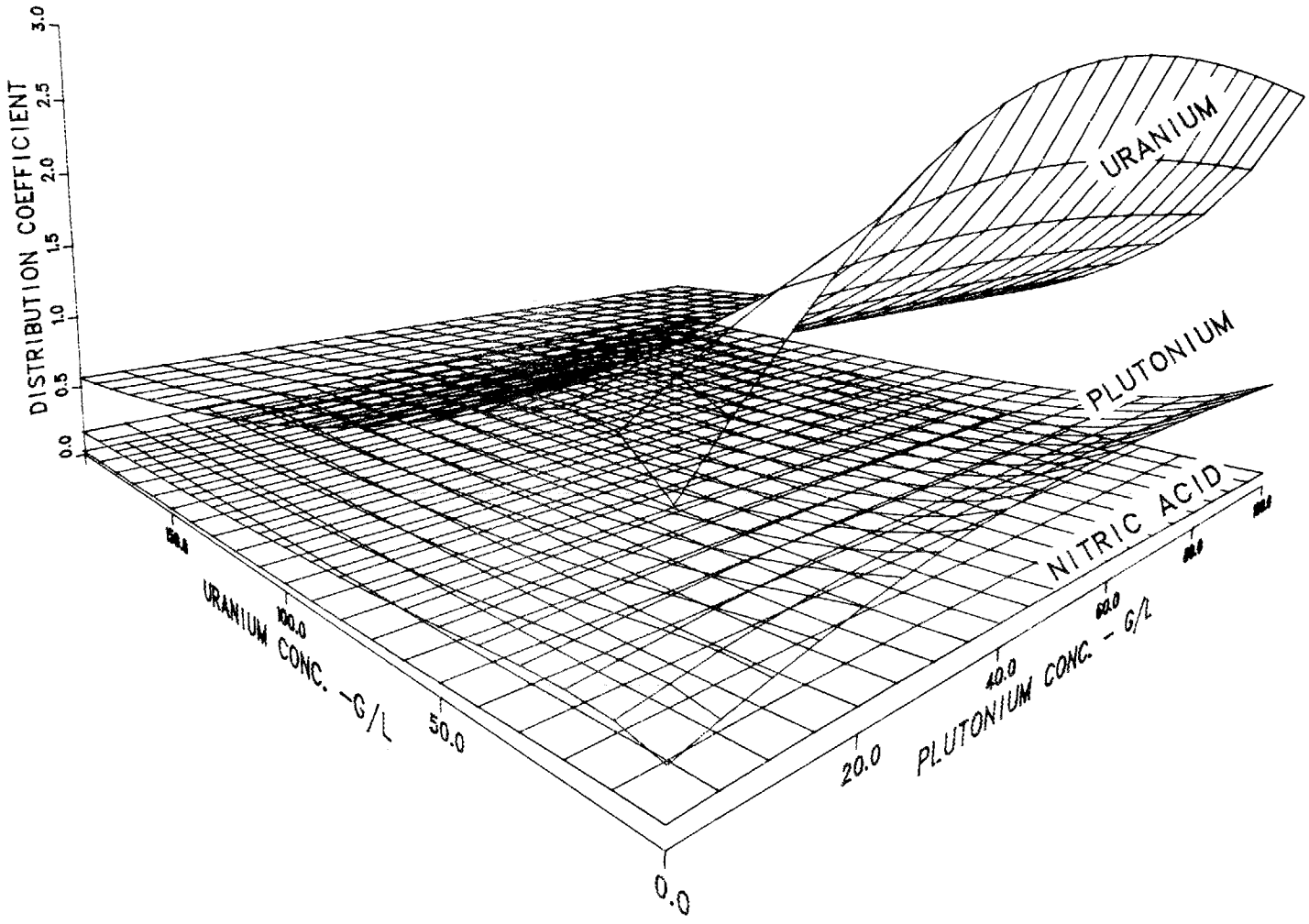

Fig. A.5. Distribution coefficient map for uranium, Pu(IV), and nitric acid in the acid-water/TBP system containing 0 to 200 g/L U, 0 to 100 g/L Pu(IV), 0.3-*M* HNO_3 in the aqueous phase, and 30% TBP at 25°C.

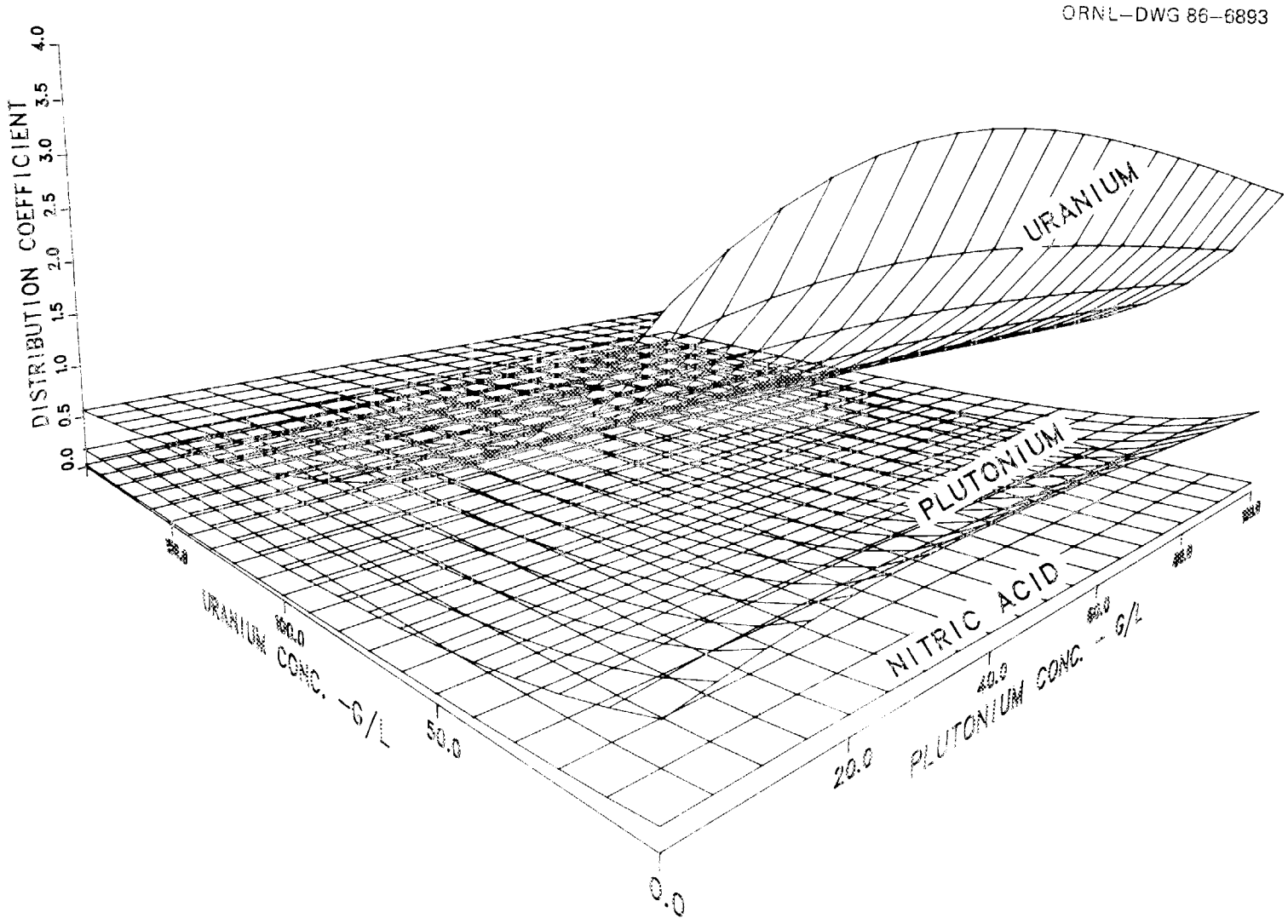

Fig. A.6. Distribution coefficient map for uranium, Pu(IV), and nitric acid in the acid-water/TBP system containing 0 to 200 g/L U, 0 to 100 g/L Pu(IV), 0.5-*M* HNO_3 in the aqueous phase, and 30% TBP at 25°C.

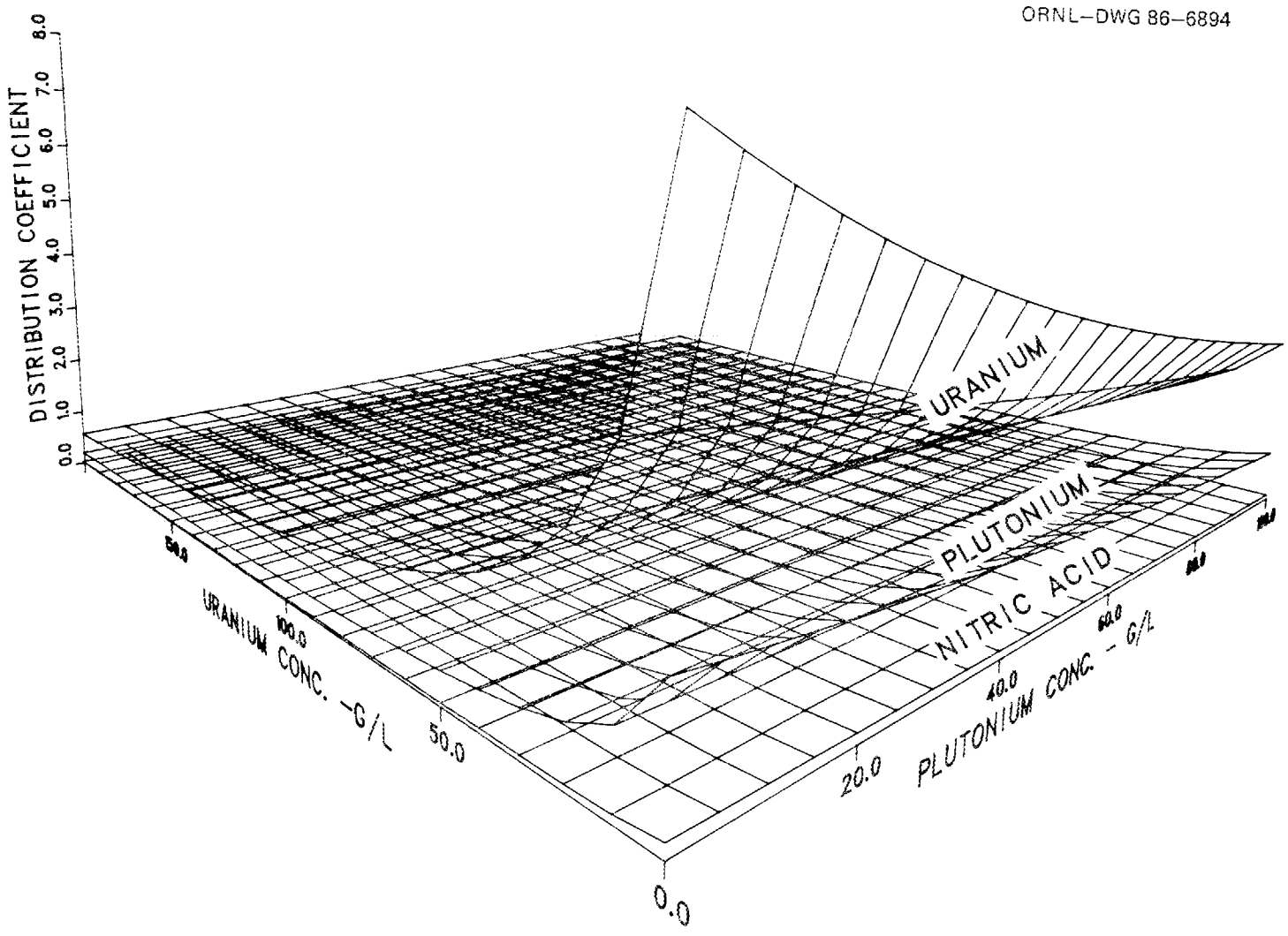

Fig. A.7. Distribution coefficient map for uranium, Pu(IV), and nitric acid in the acid-water/TBP system containing 0 to 200 g/L U, 0 to 100 g/L Pu(IV), 1-*M* HNO_3 in the aqueous phase, and 30% TBP at 25°C.

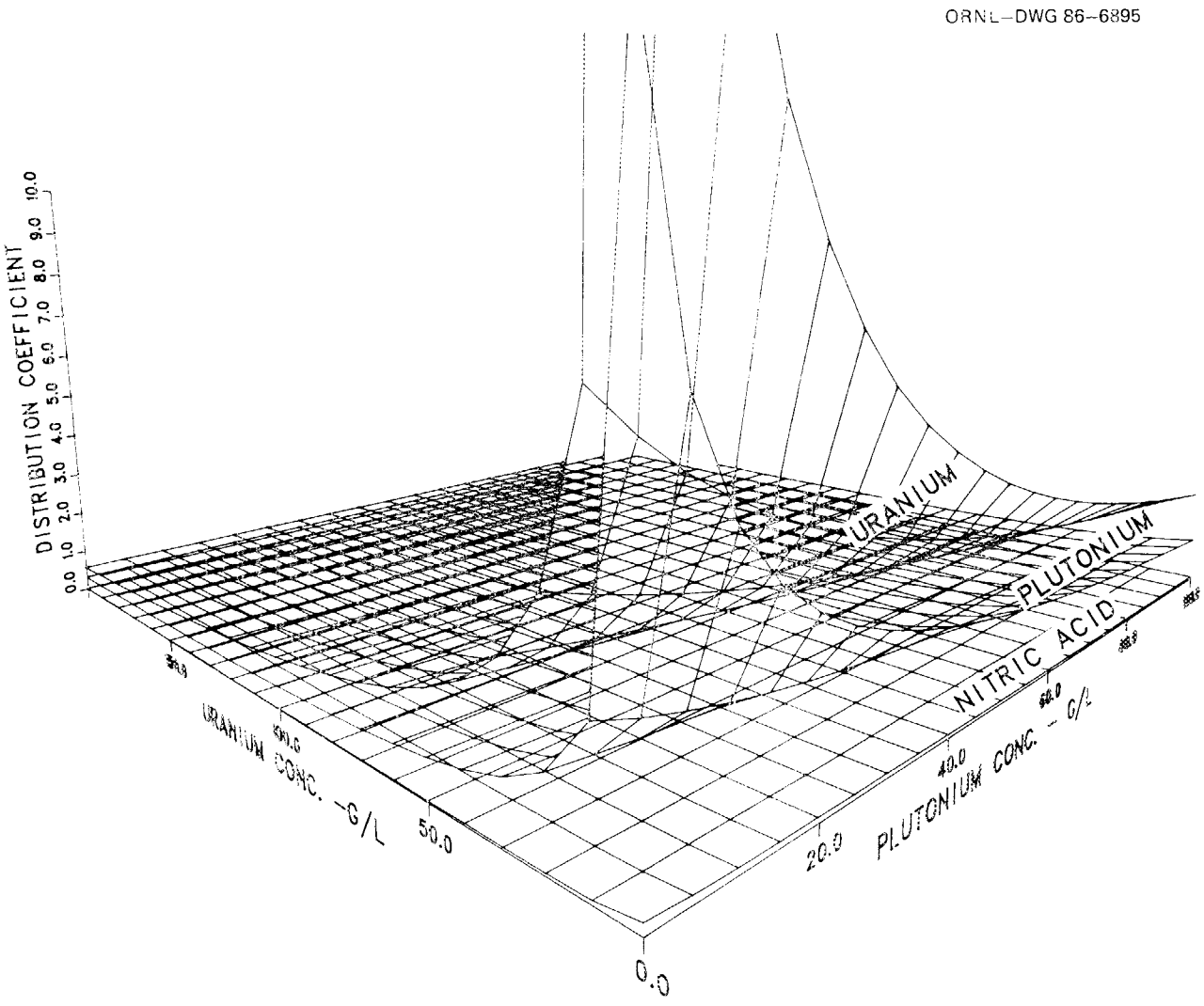

Fig. A.8. Distribution coefficient map for uranium, Pu(IV), and nitric acid in the acid-water/TBP system containing 0 to 200 g/L U, 0 to 100 g/L Pu(IV), 3-*M* HNO_3 in the aqueous phase, and 30% TBP at 25°C.

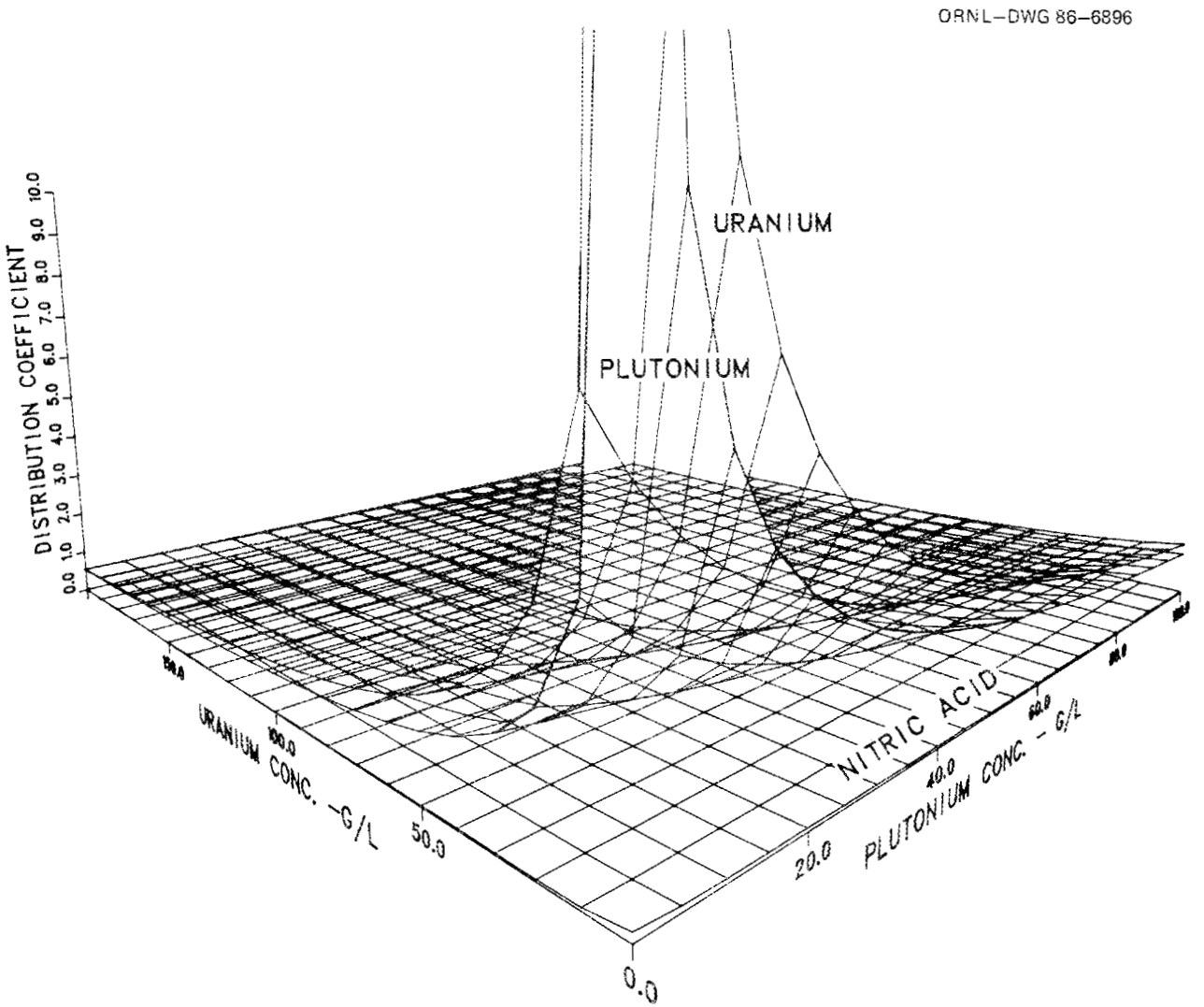

Fig. A.9. Distribution coefficient map for uranium, Pu(IV), and nitric acid in the acid-water/TBP system containing 0 to 200 g/L U, 0 to 100 g/L Pu(IV), 5-*M* HNO_3 in the aqueous phase, and 30% TBP at 25°C.

Appendix B

USER'S GUIDE FOR COEFF.DIS

B.1. INTRODUCTION

The FORTRAN program, COEFF.DIS, predicts the distribution coefficients for uranium, plutonium, and nitric acid in the Purex system. Distribution coefficient tables for a given set of condition parameters (i.e., temperature, TBP concentration, acid concentration, inextractable nitrate concentration, and reduced plutonium concentration) are shown in Appendix A. The tables are divided into 20 equal increments of uranium and plutonium concentrations in the aqueous phase. The program will also produce distribution coefficient maps which plot uranium, plutonium and nitric acid distribution coefficients versus both uranium and plutonium concentrations. A representative of the map is shown in Figs. A.4 through A.9.

An additional program capability is that of producing an entire series of tables showing incremental changes in any or all of the parameters.

B.2. PROGRAM USAGE

All data for a given number of tables or graphs are read from seven cards (see Table B.1). The first five lines control the condition parameters and thus the number of sets of tables to be generated. The first line also controls the plotting of the distribution coefficient map, that is, a 1 in columns 25 through 32 will cause the printing of plots, whereas a 0.0 in columns 25 through 32 will bypass the plotting routines.

Columns 1 through 8 contain the initial parameter values with the units as shown. Columns 9 through 16 contain the upper limits of the parameters, and columns 17 through 24 contain the increment by which the parameter is stepped from the initial condition to, but not exceeding, the upper limit. If no incremental changes are desired for a given term, columns 9 through 16 and 17 through 24 should be left blank or contain 0.0.

These parameters are the controls for the loops producing the tables and plots such that all combinations of specified parameters are considered. One should be aware that the number of tables increase geometrically with the variation in parameters.

Lines six and seven, respectively, specify the ranges of Pu(IV) and uranium to be considered. These ranges are divided into 20 equal increments.

Table B.1. Sample data cards for COEFF.DIS

	Initial values (Cols. 1–8)	Limit values (Cols. 9–16)	Increments (Cols. 17–24)	Plot (Col. 32)
TBP, vol %	0.25	0.25	0.05	1
Nitric acid, *M*	0.1	0.5	0.1	
Inextractable nitrate, *M*	0.0	0.1	0.1	
Pu(III), g/L	0.5			
Temperature, °C	20.0	50.0	15.0	
Pu(IV),[a] g/L	0.01	100.0		
U,[a] g/L	0.01	100.0		

[a]Twenty equal divisions will be generated.

Appendix C

COEFF.DIS PROGRAM LISTING AND SAMPLE JCL

```
      DIMENSION AA(21,21),BB(21,21),CC(21,21),WORK(600),DD(21,21)
      DIMENSION D(21,21),E(21,21)
      REAL NITI,NITF,NITIN
      CALL CALCMP
      TIME=1.0
      IP=0
      IXPT=21
      IYPT=21
C
C     READ IN RANGES TO BE CONSIDERED
C
5     READ(5,1010,END=60) TBPI,TBPF,TBPIN,WPLOTS
      READ(5,1010) ACIDI,ACIDF,ACIDIN
      READ(5,1010) NITI,NITF,NITIN
      READ(5,1010) PU3I,PU3F,PU3IN
      READ(5,1010) TEMI,TEMF,TEMIN
      READ(5,1010) XMIN,XMAX
      READ(5,1010) YMIN,YMAX
      ITBF=1
      IAF=1
      INF=1
      IPF=1
      ITF=1
      IF (TBPF.EQ.0.0.OR.TBPIN.EQ.0.0) GO TO 200
      ITBF=INT((TBPF-TBPI)/TBPIN)+1
200   IF (ACIDF.EQ.0.0.OR.ACIDIN.EQ.0.0) GO TO 210
      IAF=INT((ACIDF-ACIDI)/ACIDIN)+1
210   IF (NITF.EQ.0.0.OR.NITIN.EQ.0.0) GO TO 220
      INF=INT((NITF-NITI)/NITIN)+1
220   IF (PU3F.EQ.0.0.OR.PU3IN.EQ.0.0) GO TO 230
      IPF=INT((PU3F-PU3I)/PU3IN)+1
230   IF (TEMF.EQ.0.0.OR.TEMIN.EQ.0.0) GO TO 240
      ITF=INT((TEMF-TEMI)/TEMIN)+1
240   XSTEP=(XMAX-XMIN)/(IXPT-1)
      YSTEP=(YMAX-YMIN)/(IYPT-1)
1010  FORMAT(6F8.2)
C
C     CALCULATION OF DISTRIBUTION COEFFICIENT ARRAYS
C
      DO 70 IN=1,INF
      SNITR=NITI+((IN-1)*NITIN)
      DO 70 IPU=1,IPF
      PUIII=PU3I+((IPU-1)*PU3IN)
      DO 70 ITB=1,ITBF
      F=TBPI+((ITB-1)*TBPIN)
      DO 70 IT=1,ITF
      TEMPC=TEMI+((IT-1)*TEMIN)
      DO 70 IAA=1,IAF
      HAM=ACIDI+((IAA-1)*ACIDIN)
C
C     INITIALIZE
C
      AMAX=0.0
      BMAX=0.0
      CMAX=0.0
      GMAX=0.0
```

```
      IP=IP+1
C
C     CALCULATE CONCENTRATIONS ON A SOLUTE FREE BASIS
C
      C=-3.65145*F
      UAM=YMIN
      DO 30 J=1,IYPT
      PUAM=XMIN
      DO 20 I=1,IXPT
      UAM1=UAM/238.
      PUAM1=PUAM/239.
      CONVA=1.-.0724*UAM1-.13*PUAM1-.0309*HAM-.031*SNITR
      UAM1=UAM1/CONVA
      HAM1=HAM/CONVA
      PUAM1=PUAM1/CONVA
      PUIII1=PUIII/(239.0*CONVA)
      SNITR1=SNITR/CONVA
C
C     UCOR EQUATIONS
C
C
C     MODIFICATIONS MEW MEMO UCORPU/MEW/1-85
C
      FFUU=1.130
      FFPU1=0.135
      FFPU2=0.010
      CEXP=0.800
C
C     END MODS
C
      TNM=HAM1+2.*UAM1+2.*PUAM1+SNITR1+2.*PUIII1
      TEMPRK=1000./(TEMPC+273.16)
      DRT=TEMPRK-3.3539
      UK=3.7*TNM**1.57+1.4*TNM**3.9+0.011*TNM**7.3
      UK=UK*(4.*F**(-0.17)-3.)
      UK=FFUU*UK
      PUK=UK*(FFPU1 + .122113*(F/.3)**(.746-3.91*F) + FFPU2*TNM**2)
C     PUK=UK*(FFPU1 + .55*F**1.25 + FFPU2*TNM**2)
C     PUK=UK*(.20+.55*F**1.25+.0074*TNM**2)
      HK1=0.135*TNM**0.82+0.0052*TNM**3.44
      IF (F.LT.1.) HK1=HK1*(1.-0.54*EXP(-15.*F))
      IF (TEMPC.NE.25.) UK=UK*EXP(2.5*DRT)
      IF (TEMPC.NE.25.) PUK=PUK*EXP(-CEXP*DRT)
C     IF (TEMPC.NE.25.) PUK=PUK*EXP(-2.*DRT)
      IF (TEMPC.NE.25.) HK1=HK1*EXP(0.34*DRT)
      HK2=HK1
      A=2.*(UK*UAM1+PUK*PUAM1+HK2*HAM1)
      B=HK1*HAM1+1.
      IF (A.GE.1.E-6) GO TO 10
      TF=-C/B
      GO TO 15
10    CONTINUE
      TF=(-B+SQRT(B**2-4*A*C))/(2.*A)
15    CONTINUE
      DH1=HK1*TF
      DH2=HK2*TF**2
```

```
      DH=DH1+DH2
      DU=UK*TF**2
      DPU=PUK*TF**2
C     DENOM=1.0-.401817+0.0131237*TEMPC
C     DENOM=1.0-.43223+0.013118*TEMPC+.74358*UAM1-.175829*HAM1*UAM1
C     DPU=DPU/DENOM
C
C     END OF UCOR EQUATIONS
C
      OHAM=HAM1*DH
      OUAM=UAM1*DU
      OPUAM=PUAM1*DPU
      WO=(4.2-0.015*TEMPC)*(F**1.69)*(C-2.0*OUAM-2.0*OPUAM
     1 -0.6*OHAM)/C
      CONVO=1.0+(0.097*OUAM+0.139*OPUAM+0.043*OHAM+0.0174*WO)
      DU=DU/(CONVO*CONVA)
      DH=DH/(CONVO*CONVA)
      DPU=DPU/(CONVO*CONVA)
      IF (DU.GE.AMAX) AMAX=DU
      IF (DPU.GE.BMAX) BMAX=DPU
      IF (DH.GE.CMAX) CMAX=DH
      IF (AMAX.GE.GMAX) GMAX=AMAX
      IF (BMAX.GE.GMAX) GMAX=BMAX
      IF (CMAX.GE.GMAX) GMAX=CMAX
      GMAX=AMIN1(GMAX,10.0)
      AA(I,J)=DU
      BB(I,J)=DPU
      CC(I,J)=DH
      D(I,J)=PUAM
      E(I,J)=UAM
      DD(I,J)=DH*100.0
      PUAM=PUAM+XSTEP
20    CONTINUE
      UAM=UAM+YSTEP
30    CONTINUE
C
C     LISTING OF DISTRIBUTION COEFFICIENT TABLES
C
      DO 101 IA=1,3
      IF (IA.EQ.2) GO TO 31
      IF (IA.EQ.3) GO TO 32
      WRITE(6,2000)
      GO TO 33
31    WRITE(6,2010)
      GO TO 33
32    WRITE(6,2020)
33    CONTINUE
      WRITE(6,2030) HAM
      WRITE(6,2040) F
      WRITE(6,2050) SNITR
      WRITE(6,2060) PUIII
      WRITE(6,2070) TEMPC
      I1=IXPT
      J1=IYPT
      WRITE(6,2080)
      WRITE(6,2090)
```

```
      IF(D(1,1).GE.0.1) GO TO 110
      WRITE(6,2105) (D(IB,1),IB=2,I1)
      GO TO 120
110   WRITE(6,2100)  (D(IB,1),IB=1,I1)
120   WRITE(6,2110)
      IF  (IA.EQ.2) GO TO 40
      IF  (IA.EQ.3) GO TO 50
      DO 35 JB=1,J1
      IF(E(1,JB).GE.0.1) GO TO 130
      WRITE(6,2125) (AA(IB,JB),IB=1,I1)
      GO TO 140
130   WRITE(6,2120)  E(1,JB),(AA(IB,JB),IB=1,I1)
140   WRITE(6,2130)
35    CONTINUE
      GO TO 100
40    DO 45 JB=1,J1
      IF(E(1,JB).GE.0.1) GO TO 150
      WRITE(6,2125) (BB(IB,JB),IB=1,I1)
      GO TO 160
150   WRITE(6,2120)  E(1,JB),(BB(IB,JB),IB=1,I1)
160   WRITE(6,2130)
45    CONTINUE
      GO TO 100
50    DO 55 JB=1,J1
      IF(E(1,JB).GE.0.1) GO TO 170
      WRITE(6,2125) (DD(IB,JB),IB=1,I1)
      GO TO 180
170   WRITE(6,2120)  E(1,JB),(DD(IB,JB),IB=1,I1)
180   WRITE(6,2130)
55    CONTINUE
100   PUMAX=(TIME/((HAM**4.6)*7.66E-16*EXP(12300./(TEMPC+273.))))
       **(-.625)
      PUMAX=PUMAX*239.0
      IF  (PUMAX.LT.XMAX)  WRITE(6,2140)  TIME,PUMAX
101   CONTINUE
C
C     PLOTTING OF DISTRIBUTION COEFFICIENTS
C
      IF  (WPLOTS.NE.1.0) GO TO 70
      CALL BGNPL(IP)
      CALL NEWPEN(1)
      CALL PAGE(11.,14.)
      CALL PHYSOR(.5,1.0)
      CALL DUPLX
      CALL TITL3D('DISTRIBUTION COEFFICIENT$',-100,10.,8.0)
      CALL AXES3D('PLUTONIUM CONC. - G/L$',100,
     /'URANIUM CONC. -G/L$',100,
     /'DISTRIBUTION COEFFICIENT$',100,10.,10.,5.)
      CALL VUABS(-5.,-5.,5.)
      CALL GRAF3D(XMIN,'SCALE',XMAX,YMIN,'SCALE',YMAX,0.,'SCALE',GMAX)
      CALL SURMAT(AA,1,IXPT,1,IYPT,WORK)
      CALL MESSAG('BLACK - URANIUM$',100,10.,2.0)
      CALL HEIGHT(.10)
      CALL MESSAG('NITRIC ACID CONC. - M - $',100,10.,7.)
      CALL REALNO(HAM,2,'ABUT','ABUT')
      CALL MESSAG('TBP - VOLUME FRACTION - $',100,10.,6.6)
```

```
      CALL REALNO(F,3,'ABUT','ABUT')
      CALL MESSAG('INEXTRACTABLE NITRATE-M-$',100,10.,6.2)
      CALL REALNO(SNITR,2,'ABUT','ABUT')
      CALL MESSAG('PLUTONIUM(III) -G/L-    $',100,10.,5.8)
      CALL REALNO(PUIII,3,'ABUT','ABUT')
      CALL MESSAG('TEMPERATURE - DEG. C -  $',100,10.,5.4)
      CALL REALNO(TEMPC,2,'ABUT','ABUT')
      CALL RESET('HEIGHT')
      CALL NEWPEN(2)
      CALL SURMAT(BB,1,IXPT,1,IYPT,WORK)
      CALL MESSAG('RED   - PLUTONIUM$',100,10.,1.5)
      CALL NEWPEN(3)
      CALL SURMAT(CC,1,IXPT,1,IYPT,WORK)
      CALL MESSAG('GREEN - NITRIC ACID$',100,10.,1.0)
      CALL ENDPL(IP)
70    CONTINUE
      GO TO 5
60    CALL DONEPL
2000  FORMAT('1',////,50X,'DISTRIBUTION COEFFICIENT FOR URANIUM')
2010  FORMAT('1',////,49X,'DISTRIBUTION COEFFICIENT FOR PLUTONIUM')
2020  FORMAT('1',////,46X,'DISTRIBUTION COEFFICIENT FOR NITRIC ACID*',
     / '100')
2030  FORMAT('0',53X,'NITRIC ACID CONC. - M - ',F5.2)
2040  FORMAT(' ',53X,'TBP - VOLUME FRACTION - ',F5.3)
2050  FORMAT(' ',53X,'INEXTRACTABLE NITRATE-M-',F5.2)
2060  FORMAT(' ',53X,'PLUTONIUM(III) -G/L-    ',F5.2)
2070  FORMAT(' ',53X,'TEMPERATURE - DEG. C -  ',F5.2)
2080  FORMAT('0','URAN :',46X,'PLUTONIUM CONCENTRATION - G/L')
2090  FORMAT(' ','CONC :')
2100  FORMAT(' ','G/L  :',21(X,F5.1))
2105  FORMAT(' ','G/L  : TRACE',20(X,F5.1))
2110  FORMAT(' ',44('---'))
2120  FORMAT(' ',F5.1,':',21(X,F5.2))
2125  FORMAT(' ','TRACE',':',21(X,F5.2))
2130  FORMAT(' ',5X,':')
2140  FORMAT('0',' CAUTION --- POSSIBLE 2% PU POLYMER FORMATION IN ',
     -  F5.2,' HOURS FOR PLUTONIUM CONCENTRATIONS IN EXCESS OF ',
     .  F6.2,' G/L.')
      STOP
      END

IHC002I STOP      0
```

SAMPLE JCL

```
//VIDDISP JOB (XXXXX,I5,TAPE),'ADDRESS',TIME=10
/*JOBPARM LINES=100
//*PLOT TYPE=CAL925,INK=(BLACK/L,RED/L,GREEN/L),COPIES=1,NUMBER=10
/*ROUTE PRINT LOCAL
//EXEC FORTHCLG,PARM.FORT='XREF',PLOT=DIS82,PARM.GO='EU=-1,DUMP=I',
//REGION.GO=270K
//FORT.SYSIN DD*
COEFF.DIS
/*
//LKED.SYSIN DD *
/*
//GO.FT06F001 DD SYSOUT=(A,,4216)
//GO.FT54F001 DD DDNAME=PLOTTAPE
//GO.PLOTTAPE DD UNIT=TAPE16,
// LABEL=(,SL),DISP=(NEW,KEEP),DSN=VID.DISPTAPE,
// DCB=(DEN=3,RECFM=VX,LRECL=364,BLKSIZE=368)
//GO.FT05F001 DD *
=DATASET
/*
//
ENDINPUT
```

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