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A Modified Mathematical Model for Calculating Distribution Coefficients for U(VI), Pu(IV), and Nitric Acid in the Uranyl Nitrate-Plutonium(IV) Nitrate-Nitric Acid-Water/Tributyl Phosphate System

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A MODIFIED MATHEMATICAL MODEL FOR CALCULATING DISTRIBUTION COEFFICIENTS FOR U(VI), Pu(IV), AND NITRIC ACID IN THE URANYL NITRATE-PLUTONIUM(IV) NITRATE-NITRIC ACID-WATER/TRIBUTYL PHOSPHATE SYSTEM

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NOTICE This document contains information of a preliminary nature. It is subject to revision or correction and therefore does not represent a final report.

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HIGHLIGHTS

The current model in the SEPHIS code for predicting the distribution coefficients for uranium, plutonium, and nitric acid in 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. The model, as a whole, appears to be valid for uranium concentrations from 0 to 200 g/ℓ and plutonium concentrations from 0 to 20 g/ℓ over the temperature range of 20 to 70°C and up to 11 M HNO_3. While some data were examined with plutonium concentrations up to 100 g/ℓ, and agreement was good, extreme caution must be exercised when using the model in the region above 20 g/ℓ plutonium. The model was originally developed to cover a range of TBP concentration up to 100%; however, only data at 30% TBP were examined in this study. Since experimental data on nitric acid were widely "scattered," no judgment was made on the useful range of the nitric acid distribution coefficients.

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, 40 to 50°C; and TBP concentration, 30%. Other tables could be generated rather easily; however, it is not practical to present a more extensive listing for the purposes of this report. The computer program and a user's guide for generating the tables and distribution coefficient maps are included.

1. INTRODUCTION

Recent developments in high-speed solvent extraction contactors for use in the nuclear fuel reprocessing industry may allow the implementation of additional solvent extraction stages at minimal cost and without the need to increase the cell height, as would be the case with a pulsed perforated plate column. The use of additional stages might permit more difficult separations that are not attempted at the present time, for example, the separation of Pu(IV) and U(VI) without reduction of the plutonium. Even without the advances in contactor design, the accurate prediction of distribution coefficients is of great importance when examining the proposed flowsheets.

One model describing the uranium-plutonium-nitric acid-TBP system was developed by W. S. Groenier[1] and D. E. Horner[2] and further improved by G. L. Richardson and J. L. Swanson[3] and by S. B. Watson and R. H. Rainey.[4] This model predicts the distribution of uranium, plutonium, and nitric acid between the aqueous and organic phases as a function of concentrations of uranium(VI), plutonium(IV), nitric acid, TBP, inextractable nitrates, plutonium(III), and temperature.

Several computer codes now available to examine Purex flowsheets use some form of this model. One is the SEPHIS code[5,6] and another is the MATEX code. 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.

How well either of these codes will work is dependent on how accurately the model of the distribution coefficients can predict the correct values. To determine the model's accuracy, a comparison was made between the reported distribution coefficients and the coefficients calculated by computer code.

2. DESCRIPTION OF THE PRESENT MODEL

The SEPHIS code now uses the method developed by Richardson, which attempts to predict distribution coefficients and correct for various temperatures and TBP concentrations not considered in earlier versions of SEPHIS. This method was incorporated in the UCOR subroutine of SEPHIS by Watson and Rainey and is described in detail in their report.[4]

Equilibrium calculations are performed on a solute-free basis. The conversions between molal concentration (lower case) and molar concentration (upper case) are:

$$x_a = X_a/(1.0 - 0.0724 \cdot U_a - 0.13 \cdot Pu_a - 0.0309 \cdot H_a - 0.031 \cdot S_a) \quad (1)$$

and

$$y_0 = Y_0(1.0 + 0.097 \cdot u_0 + 0.139 \cdot pu_0 + 0.043 \cdot h_0 + 0.0174 \cdot w_0) , \quad (2)$$

where

$$w_0 = (4.2 - 0.015\ T)\left(1.0 - \frac{2U_0}{t} - \frac{2Pu_0}{t} - \frac{0.6H_0}{t}\right) F^{1.69} \ . \tag{3}$$

The equilibrium correlation was based on deriving empirical equations for the following pseudo-mass-action equilibrium constants:

$$K_u = \frac{[UO_2(NO_3)_2 \cdot 2TBP]_0}{(UO_2^{2+})_a (TBP)_0^2} = K'_u (NO_3^-)_a^2 \ , \tag{4}$$

$$K_{pu} = \frac{[Pu(NO_3)_4 \cdot 2TBP]_0}{(Pu^{4+})_a (TBP)_0^2} = K'_{pu} (NO_3^-)_a^4 \ , \tag{5}$$

$$K_{h1} = \frac{(HNO_3 \cdot TBP)_0}{(H^+)_a (TBP)_0} = K'_{h1} (NO_3^-)_a \ , \tag{6}$$

$$K_{h2} = \frac{(HNO_3 \cdot 2TBP)_0}{(H^+)_a (TBP)_0^2} = K'_{h2} (NO_3^-)_a \ . \tag{7}$$

The basic empirical equilibrium expressions were derived at 100% TBP equilibrated at 25°C, giving the following equations:

$$K_u^* = 3.7 n_a^{1.57} + 1.4 n_a^{3.9} + 0.011 n_a^{7.3} \ , \tag{8}$$

$$K_{h1}^* = 0.135 n_a^{0.82} + 0.0052 n_a^{3.44} \ , \tag{9}$$

$$K^*_{h1} \cong K^*_{h2} \ , \tag{10}$$

where

$$n_a = h_a + 2u_a + 2pu_a + s_a + 4pu_{3a} \ . \tag{11}$$

The plutonium equilibrium constant was determined as a function of the uranium constant at 25°C.

$$K^*_{pu} = K^*_u(0.20 + 0.55F^{1.25} + 0.0074n_a^2) \ . \tag{12}$$

The code provides correction factors for other TBP concentrations and temperatures:

$$K_u = K^*_u(4F^{-0.17} - 3)e^{(2500\tau)} \ , \tag{13}$$

$$K_{pu} = K^*_{pu}(4F^{-0.17} - 3)e^{(-200\tau)} \ , \tag{14}$$

$$K_{h1} = K_{h2} = K^*_{h1}[1.0 - 0.54e^{(-15F)}]e^{(340\tau)} \ , \tag{15}$$

where $\tau = 1/(T + 273) - 1/298$. The change in the distribution with TBP concentration is estimated as follows:

$$D_u = \frac{[UO_2(NO_3)_2 \cdot 2TBP]_0}{(UO_2^{2+})_a} = K_u(TBP)_0^2 \ , \tag{16}$$

$$D_{pu} = \frac{[Pu(NO_3)_4 \cdot 2TBP]_0}{(Pu^{4+})_a} = K_{pu}(TBP)_0^2 \ , \tag{17}$$

$$D_{h1} = \frac{(HNO_3 \cdot TBP)_0}{(H^+)_a} = K_{h1}(TBP)_0 \ , \tag{18}$$

$$D_{h2} = \frac{(HNO_3 \cdot 2TBP)_0}{(H^+)_a} = K_{h2}(TBP)_0^2 \ . \tag{19}$$

Free (uncomplexed) TBP concentration is calculated as follows:

$$(TBP)_0 = \frac{-(K_{h1}h_a + 1) + \sqrt{(K_{h1}h_a + 1)^2 + 8(K_u u_a + K_{pu}pu_a + K_{h2}h_a)(3.651F)}}{4(K_u u_a + K_{pu}pu_a + K_{h2}h_a)} \ . \tag{20}$$

3. COMPARISONS OF THE PRESENT MODEL TO LITERATURE VALUES

The data used in this report for comparison with Richardson's model were taken from the German compilation by G. Petrich and Z. Kolarik.[7] This compilation represents data found in the literature from 1952 through 1977. The data that Petrich presents covers only the use of 30% TBP. The data for the most part fall into discrete temperature and nitric acid concentration bands, with the major portion occurring at 25°C and <4 *M* nitric acid. While these acid concentrations are those commonly found in reprocessing applications, the temperatures of interest are 15 to 25°C higher.

The comparison was conducted by first converting the experimental conditions and distribution coefficients from the literature to the solute-free basis as used in the UCOR subroutine of SEPHIS. The UCOR subroutine was used to calculate predicted distribution coefficients on a solute-free basis for uranium, plutonium, and nitric acid. The error ratio used to compare the UCOR model with the experimental data was:

$$\text{Error} = \frac{\text{Cal} - \text{Exp}}{\text{Exp}} \times 100 \ , \tag{21}$$

where Cal is the distribution coefficient predicted by UCOR, and Exp is the corresponding experimental distribution coefficient calculated on a solute-free basis.

The error ratios for uranium, plutonium, and nitric acid were then plotted as functions of uranium concentration, plutonium concentration, nitric acid concentration, temperature, and experimenter number to determine general trends in the error ratio. The ratio plots are shown in Figs. 1 through 15 in Appendix A.

The experimenter number used on the plots to examine trends from one experimenter to another refers to the four-digit number assigned to the data point by Petrich and is defined as follows:

The first digit indicates the country in which the experiment was performed. For example, the number 1 is assigned to the United States; 2, Great Britain; 3, France; 4, USSR; 5, Germany; 6, Japan; 7, Belgium; 8, India; and 9, others.

The second digit indicates how the data were extracted from the literature. For example, the numbers 0 to 6 indicate the numerical value in the original report; the number 7 means that data were obtained from a graphical representation estimating one aqueous concentration; 8, obtained from a graphical representation; and 9, one aqueous concentration had to be estimated.

The third and fourth digits are sequential data point numbers. For example, an experimenter number 1207 indicates that the experiment was performed in the United States, that the data came from a numerical value in the original report, and that the data point is the seventh taken from the report.

The plot of the error ratio for plutonium distribution coefficients as a function of temperature (Fig. 9, Appendix A) indicated an increase in the error as the temperature was increased. The error ratios for uranium distribution coefficients appeared to lie about the zero error line, and no attempt was made to improve upon that portion of the model. The plots of the error ratios for the nitric acid distribution coefficients showed no trends on any of the plots other than considerable scatter. No attempt was made to improve the model of the nitric acid distribution coefficient because of a lack of consistent reliable data.

The apparent trend in the plutonium distribution coefficient error ratio was analyzed using the statistical analysis system (SAS).[8] Data points for nitric acid less than 0.3 *M* were discarded during the least-squares fitting procedures because of the possible occurrence of a plutonium polymer and its effect on the experimental data. With the elimination of low-acid data sets, data sets containing no plutonium distribution values, and distribution coefficients that were widely displaced from the bulk of the data, 675 data points remained for use in the fitting procedures. It should be noted that while low-acid values were not used in the fitting procedures, they are shown on the plots. The other error ratio points that were discarded for other reasons are not shown on the plots.

Table 1 shows the correlation coefficients (R^2) that were generated for regression models containing all possible regressions of the independent variables, that is, uranium concentration, plutonium concentration, temperature, acid concentration, and their cross products. (Note that only combinations of variables yielding the highest R^2 for the given number of variables in the model are shown.) These combinations showed that the model as a function of uranium concentration, temperature, and uranium concentration-acid

Table 1. Correlation coefficients for the plutonium distribution coefficients error ratio with nitric acid > 0.3 *M*

Variables in model	R^2	Variables[a]
1	0.42485200	T
2	0.45814236	T V4
3	0.54056626	U T V3
4	0.55872526	U T V2 V3
5	0.56859892	U T V1 V2 V3
6	0.57183854	U T V1 V2 V3 V9
7	0.57924698	U T V1 V2 V3 V8 V9
8	0.58034274	U H T V1 V2 V3 V8 V10
9	0.58117762	U H T V1 V2 V3 V8 V9 V10
10	0.58210201	U H T V1 V2 V3 V6 V8 V9 V10
11	0.58283396	U Pu H T V1 V2 V3 V6 V8 V9 V10
12	0.58310630	U Pu H T V1 V2 V3 V4 V6 V8 V9 V10
13	0.58327336	U Pu H T V1 V2 V3 V4 V5 V6 V8 V9 V10
14	0.58328469	U Pu H T V1 V2 V3 V4 V5 V6 V7 V8 V9 V10

[a]U = uranium concentration; Pu, plutonium concentration; H, nitric acid concentration; T, temperature; V1, U·Pu; V2, U·U; V3, U·H; V4, U·T; V5, Pu·Pu; V6, Pu·H; V7, Pu·T; V8, H·H; V9, H·T; and V10, T·T.

concentration had an R^2 of 0.54057 and that additional variables added very little to the improvement of the fit. The general linear models (GLM) procedure was then used to determine the coefficients of the equation, using the probable model as projected by the correlation coefficients. The selected equation for the model's deviation from the experimental data is:

$$\text{Deviation} = -43.222 + 1.31175 \cdot T + 74.3578 \cdot U - 17.5829 \cdot U \cdot H \,. \quad (22)$$

The standard deviation for this equation is 17.818, and the null hypothesis test of the coefficients indicated that each term contributed significantly to the model. Since the "deviation" is the fit of the error ratio of the plutonium distribution coefficient, this equation was used to generate a correction factor of the following form:

$$\text{Exp} = \frac{\text{Cal}}{\frac{\text{Deviation}}{100} + 1} \,. \quad (23)$$

This correction was added to UCOR by dividing the plutonium distribution coefficient (as generated by the model) by (deviation/100) + 1 before the distribution coefficients were returned to the calling routine. The correction was also added to the program that generated the error ratios; a new set of error ratio plots (Figs. 16 through 20, Appendix A) was produced. The figures show that when compared to earlier plots of the uncorrected predictions, there appears to be little or no effect on plots in which the error ratios are shown as a function of uranium, plutonium, or nitric acid concentration.

It was noted that the plot of the error ratios as a function of temperature appeared to be shifted to the

negative side, and that the few extremely high error ratio points might be the cause of this shift. To verify this hypothesis, data points showing an error ratio higher than 100% were eliminated and the correcting process was repeated.

The correlation coefficients shown in Table 2 improved slightly; this was expected. Again, little improvement was seen in moving from the three-coefficient equation to the four-coefficient equation. The best three-coefficient fit of the error ratios < 100% was:

$$\text{Deviation} = -41.3899 + 1.2452 \cdot T + 60.0453 \cdot U - 13.9682 \cdot U \cdot H \,. \quad (24)$$

The standard deviation of this equation is 15.851. This correction was then added to UCOR and a new set of error ratios was generated, which are shown in Figs. 21 through 25 in Appendix A.

If the model correctly fits the data, then the error ratio should be zero. To verify that the correction factors improved the earlier model, the mean and standard deviations were determined for error ratios calculated using UCOR before the modification, using UCOR modified by the correction factor for acid > 0.3 *M*, and using UCOR modified by the correction factor for acid > 0.3 *M* and points with error ratios < 100%. The overall mean and standard deviations of the error ratios of the models are as follows:

Model	Mean deviation	Standard deviation
Uncorrected	-0.2129	23.43
Acid > 0.3 *M*	-0.1125	16.88
Acid > 0.3 *M*, error ratios < 100%	0.3799	16.97

Table 2. Correlation coefficients for the plutonium distribution coefficients error ratio with nitric acid > 0.3 *M* and a maximum error ratio of 100%

Variables in model	R^2	Variables[a]
1	0.45354531	T
2	0.48312308	T V4
3	0.54430963	U T V3
4	0.56506366	U T V2 V3
5	0.57447089	U T V1 V2 V3
6	0.57879246	U T V1 V2 V3 V9
7	0.58736186	U T V1 V2 V3 V8 V9
8	0.58871204	U T V1 V2 V3 V4 V8 V9
9	0.59019609	U T V1 V2 V3 V4 V6 V8 V9
10	0.59060753	U T V1 V2 V3 V4 V5 V6 V8 V9
11	0.59085534	U T V1 V2 V3 V4 V5 V6 V7 V8 V9
12	0.59117621	U Pu T V1 V2 V3 V4 V5 V6 V7 V8 V9
13	0.59124063	U Pu T V1 V2 V3 V4 V5 V6 V7 V8 V9 V10
14	0.59128486	U Pu H T V1 V2 V3 V4 V5 V6 V7 V8 V9 V10

[a]U = uranium concentration; Pu, plutonium concentration; H, nitric acid concentration; T, temperature; V1, U·Pu; V2, U·U; V3, U·H; V4, U·T; V5, Pu·Pu; V6, Pu·H; V7, Pu·T; V8, H·H; V9, H·T; and V10, T·T.

The mean and standard deviations were based on data points that deviated by < 100% from the model data to the experimental data. This procedure removed some of the widely scattered points. Six points were removed by this restriction, leaving 669 points to be considered.

A computer program, COEFF. DIS, utilizing model one (based on all data with acid concentrations > 0.03 *M*), described above, was written to produce tabularized distribution coefficients for 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 rapidly produced to determine whether a given flowsheet will perform as desired. The COEFF. DIS program eliminates much of the trial and error methods experienced with the MATEX or SEPHIS programs.

Appendix B contains the predicted distribution coefficients for the following ranges: uranium concentration, 0 to 200 g/ℓ; plutonium(IV) concentration, 0 to 100 g/ℓ; nitric acid, 0.1 to 5 *M*; temperature, 40 to 50°C; TBP, 30%; inextractable nitrate, 0; and plutonium(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: while distribution coefficients are given in the tables for such conditions as 95 g/ℓ plutonium, trace uranium, and 0.1 *M* HNO_3, there is a high probability that a plutonium polymer will be a dominant species. It is vital that one remembers that, even if a value can be calculated, this does not indicate that the result will be useful.

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

4. CONCLUSIONS

The present model does an adequate job of predicting the uranium distribution coefficients up to 350 g/ℓ uranium, with only trace amounts of plutonium in the aqueous phase. Data available for use in this study were concentrated in the range < 200 g/ℓ uranium and < 20 g/ℓ plutonium. In this range, the outside limit of error ratio was ± 40%. Above 20 g/ℓ plutonium, the error ratios are more scattered and, in several cases, are above 80%. When using this model, one should attempt to stay below 20 g/ℓ plutonium to remain confident of the results.

The plutonium distribution coefficients should be modified by dividing the present plutonium distribution coefficient by:

$$1.0 - 0.43222 + 0.0131175\ (\text{Temp, °C}) + 0.743578\ (\text{U}) - 0.175829\ (\text{U})\ (\text{HNO}_3)\ ,$$

where the distribution coefficient and the concentrations are in solute-free (molal) units. The useful range of the predicted plutonium distribution coefficient is the same as that for uranium. The data scatter for plutonium is somewhat greater than that for uranium; however, only 28 of 675 data points are in disagreement by more than 50%.

The model for nitric acid distribution coefficients varied from the experimental points by up to 110%, with considerable scatter. This could be either the fault of the model or the data. Only limited confidence should be placed in the predicted nitric acid distribution coefficients.

The data used for comparison covered a temperature range from 20 to 70°C, acid from 0.01 to 11.0 *M*, and included input from numerous countries.

The original model by Richardson used as a basis for this study performs well; this can be inferred by the fact that only a single correction equation was added to it. However, much work remains to be done to accurately predict the correct nitric acid distributions.

5. CALL FOR DATA

As stated earlier, much of the data used to correct the existing model falls into the lower temperature range and represents the use of only 30% TBP. Data are needed for other TBP concentrations and for higher temperatures. A common data base may help to extend the existing model towards more accurate predictions or lead to the development of a new model. We, therefore, would be most grateful to any worker in this field who would make data available for input into this file. The nitric acid data is widely scattered; therefore, any additional data on nitric acid distribution would be of great value to the development of an improved model.

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NOMENCLATURE

D — Distribution coefficients

F — TBP concentration, vol %

H — Nitric acid concentration in molar units

h — Nitric acid concentration in molal units

K — Equilibrium constant

n — Total nitrate concentration in molal units

Pu — Plutonium(IV) concentration in molar units

pu — Plutonium(IV) concentration in molal units

pu_3 — Plutonium(III) concentration in molal units

T — Temperature, °C

t — 3.65145 • F

S — Inextractable nitrate concentration in molar units

U — Uranium concentration in molar units

u — Uranium concentration in molal units

w — Water concentration in TBP phase in molal units

X — Concentration in molar units for aqueous phase

x — Concentration in molal units for aqueous phase

Y — Concentration in molar units for organic phase

y — Concentration in molal units for organic phase

τ — Temperature correction term

Subscripts

u — Uranium

pu — Plutonium

h_1 — Nitric acid associated with 1 TBP

h_2 — Nitric acid associated with 2 TBP's

a — Aqueous phase

0 — Organic phase

Superscripts

* — At 100% TBP and 25°C

′ — Mass action

Appendix A

Distribution Coefficient Error Plots

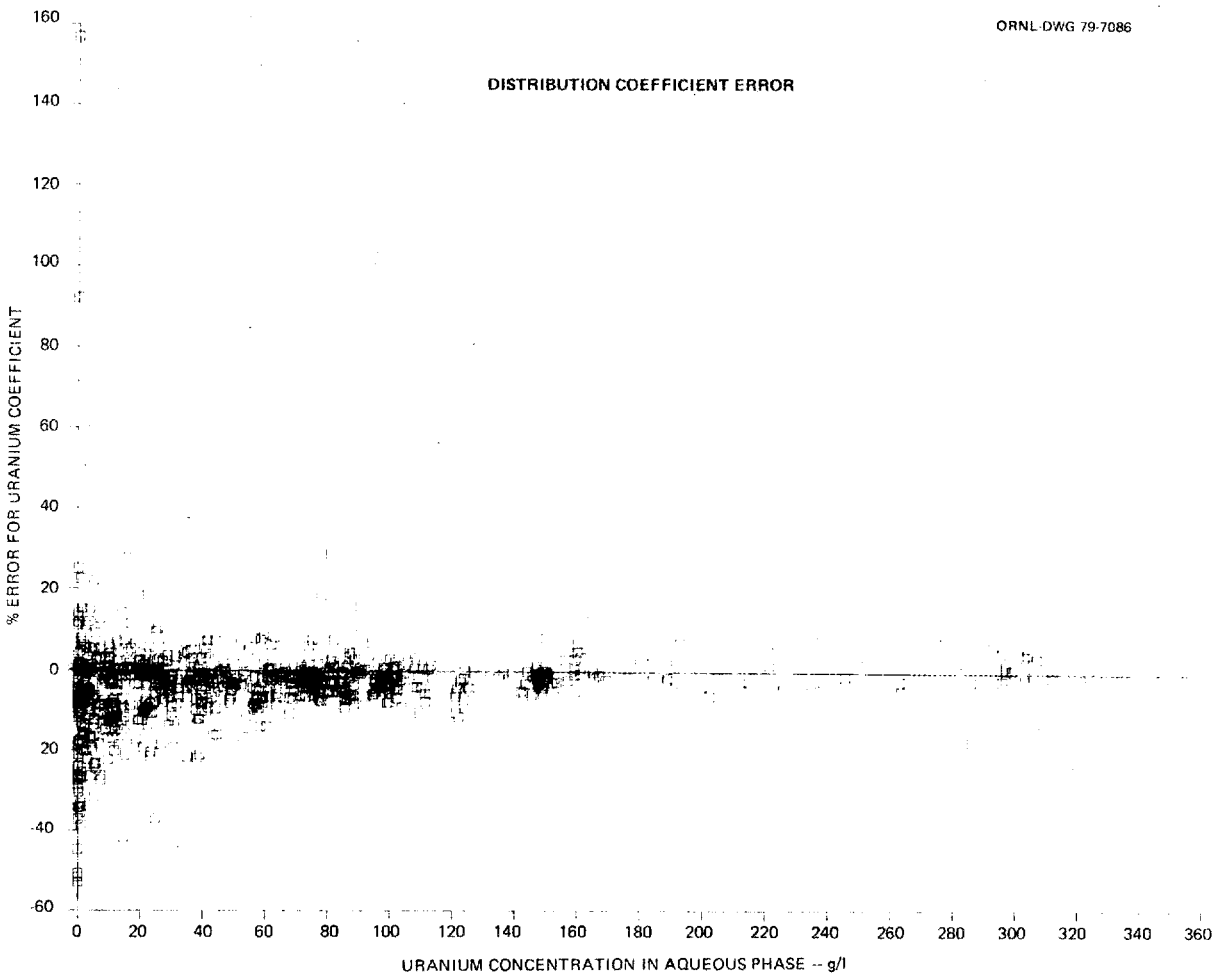

Fig. A.1. Error ratio of the uranium distribution coefficient vs uranium concentration. Error ratio = $\frac{\text{calculated value} - \text{experimental value}}{\text{experimental value}} \times 100$; calculated value is from uncorrected UCOR subroutine.

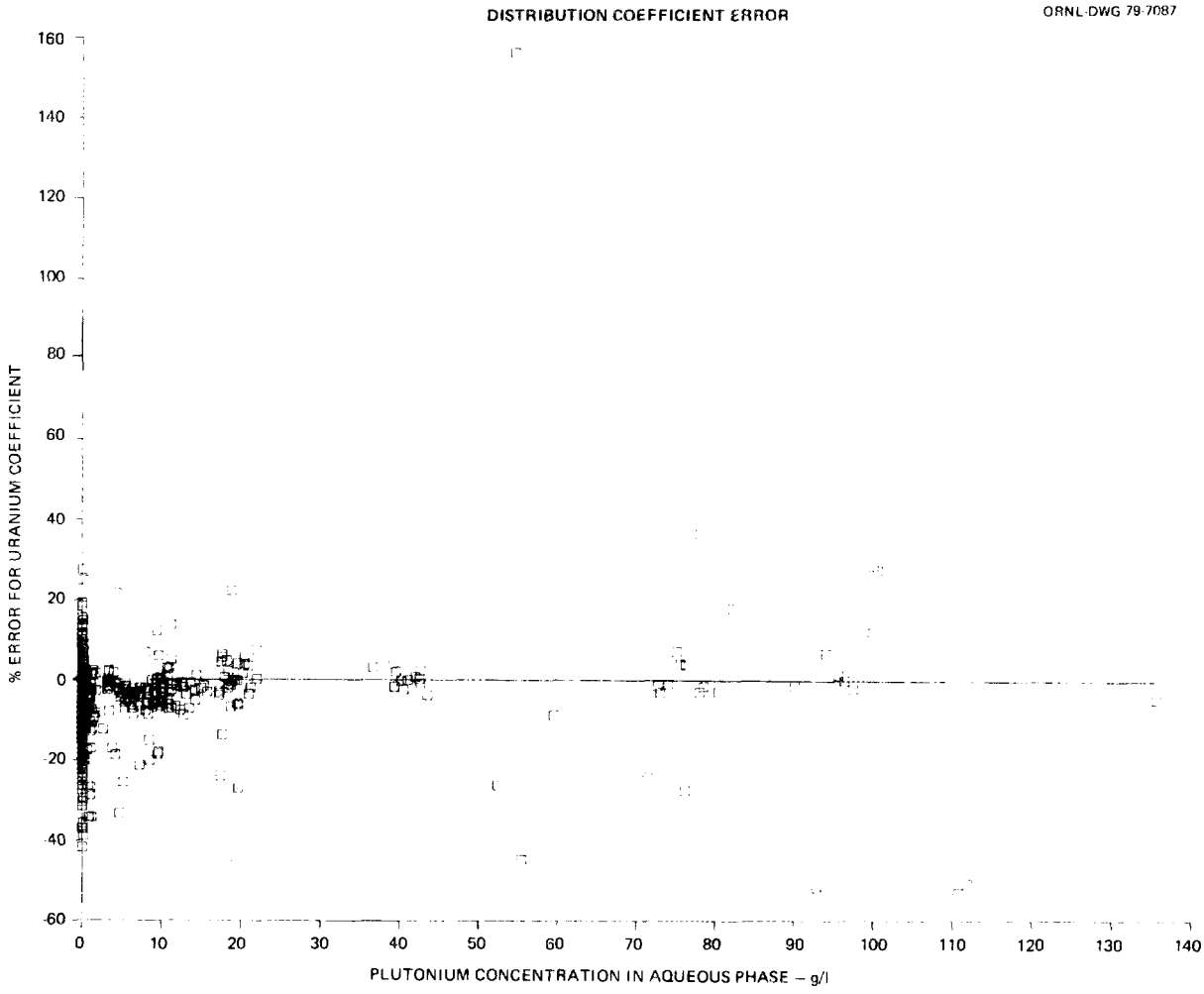

Fig. A.2. Error ratio of the uranium distribution coefficient vs plutonium(IV) concentration. Error ratio = $\frac{\text{calculated value - experimental value}}{\text{experimental value}} \times 100$; calculated value is from uncorrected UCOR subroutine.

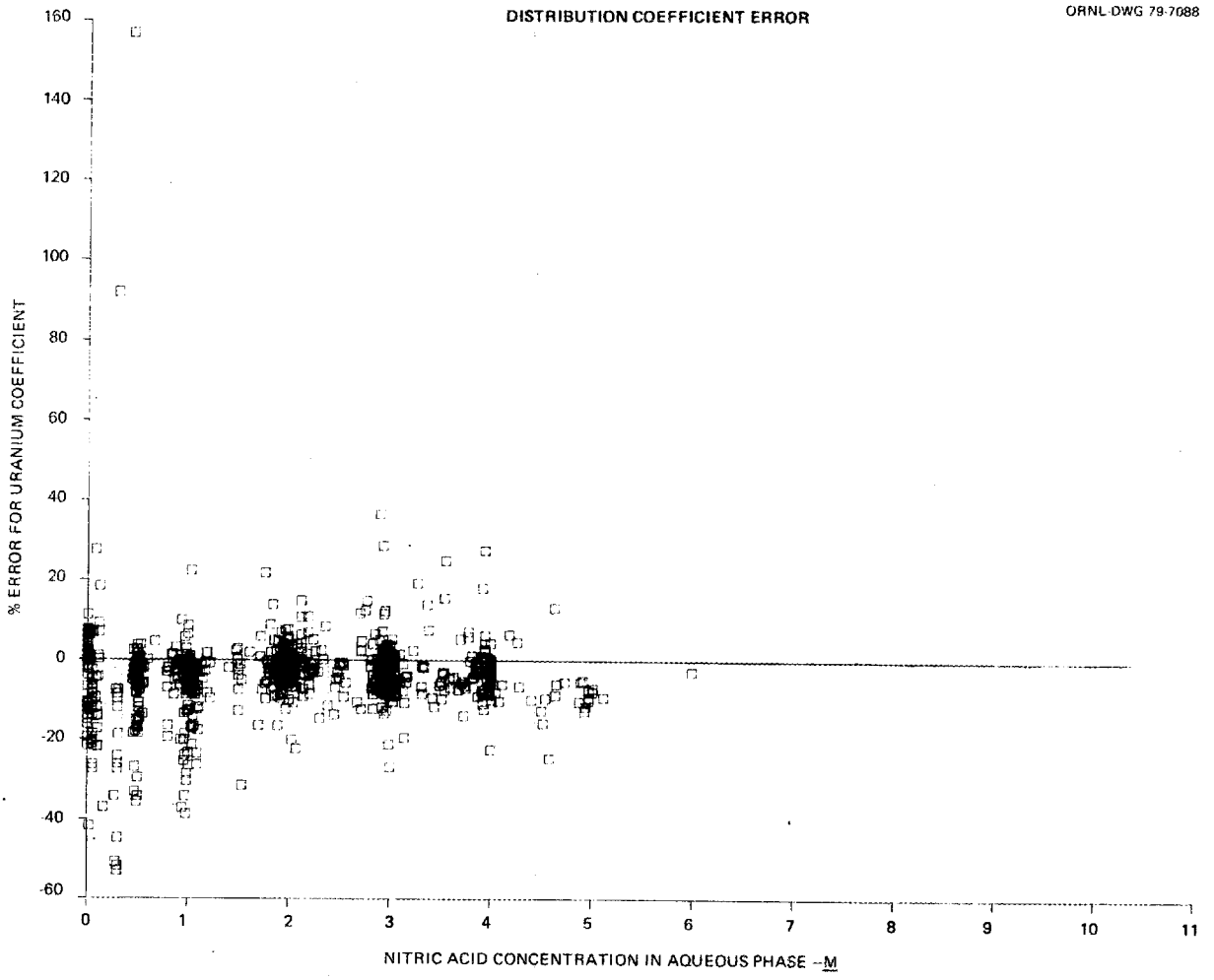

Fig. A.3. Error ratio of the uranium distribution coefficient vs nitric acid concentration. Error ratio = $\frac{\text{calculated value} - \text{experimental value}}{\text{experimental value}} \times 100$; calculated value is from uncorrected UCOR subroutine.

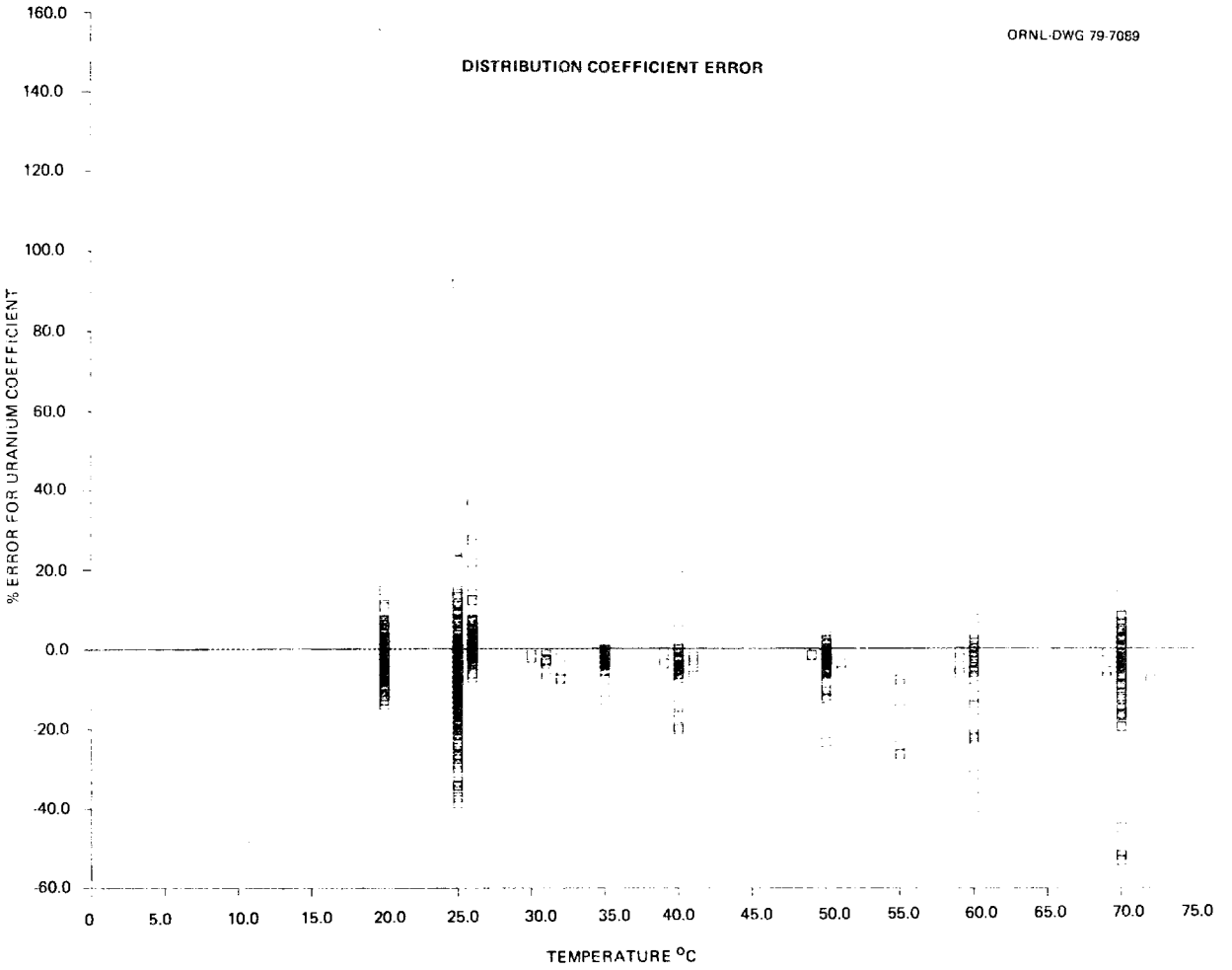

Fig. A.4. Error ratio of the uranium distribution coefficient vs temperature. Error ratio = $\frac{\text{calculated value} - \text{experimental value}}{\text{experimental value}} \times 100$; calculated value is from uncorrected UCOR subroutine.

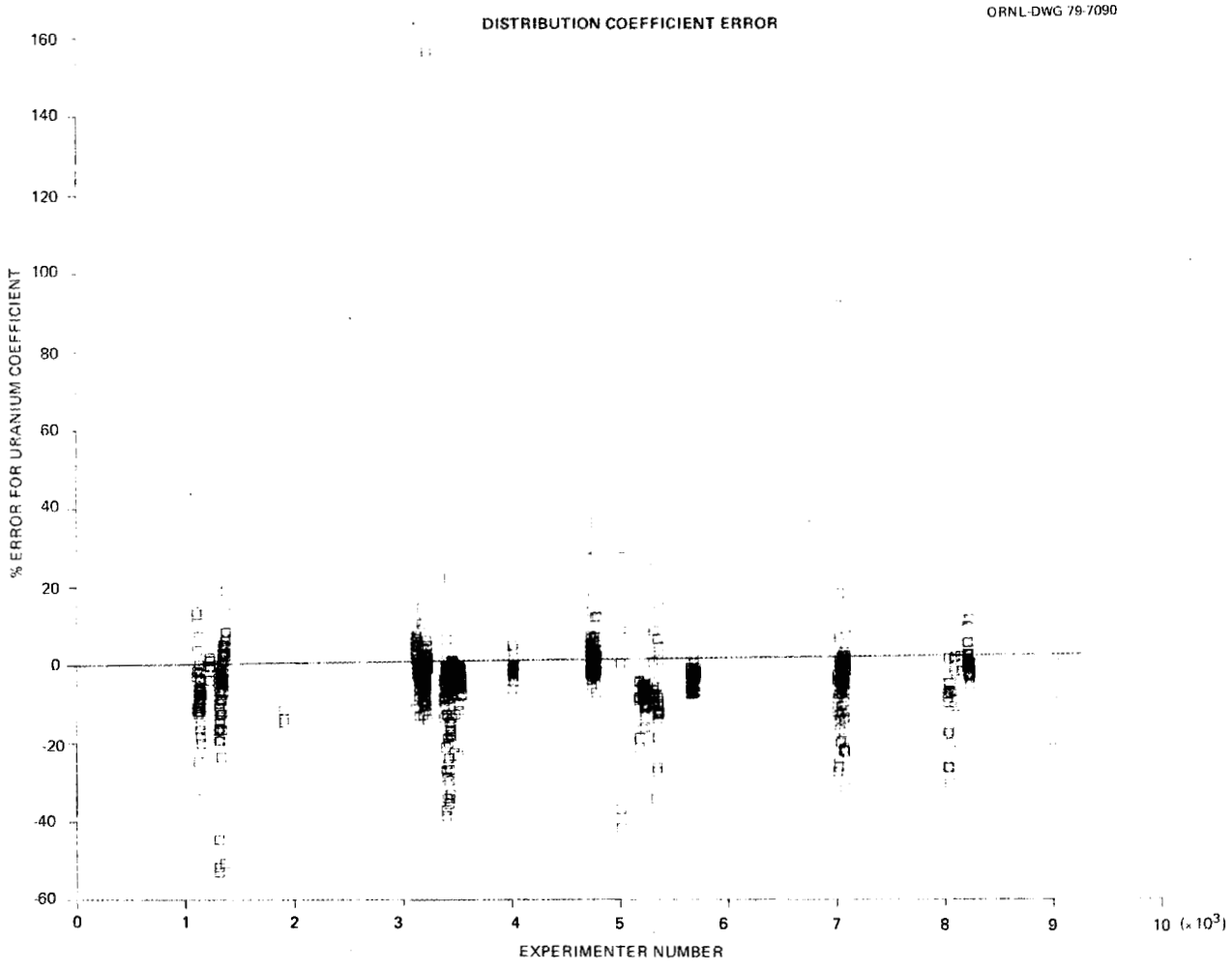

Fig. A.5. Error ratio of the uranium distribution coefficient vs experimenter number. Error ratio = $\frac{\text{calculated value} - \text{experimental value}}{\text{experimental value}} \times 100$; calculated value is from uncorrected UCOR subroutine.

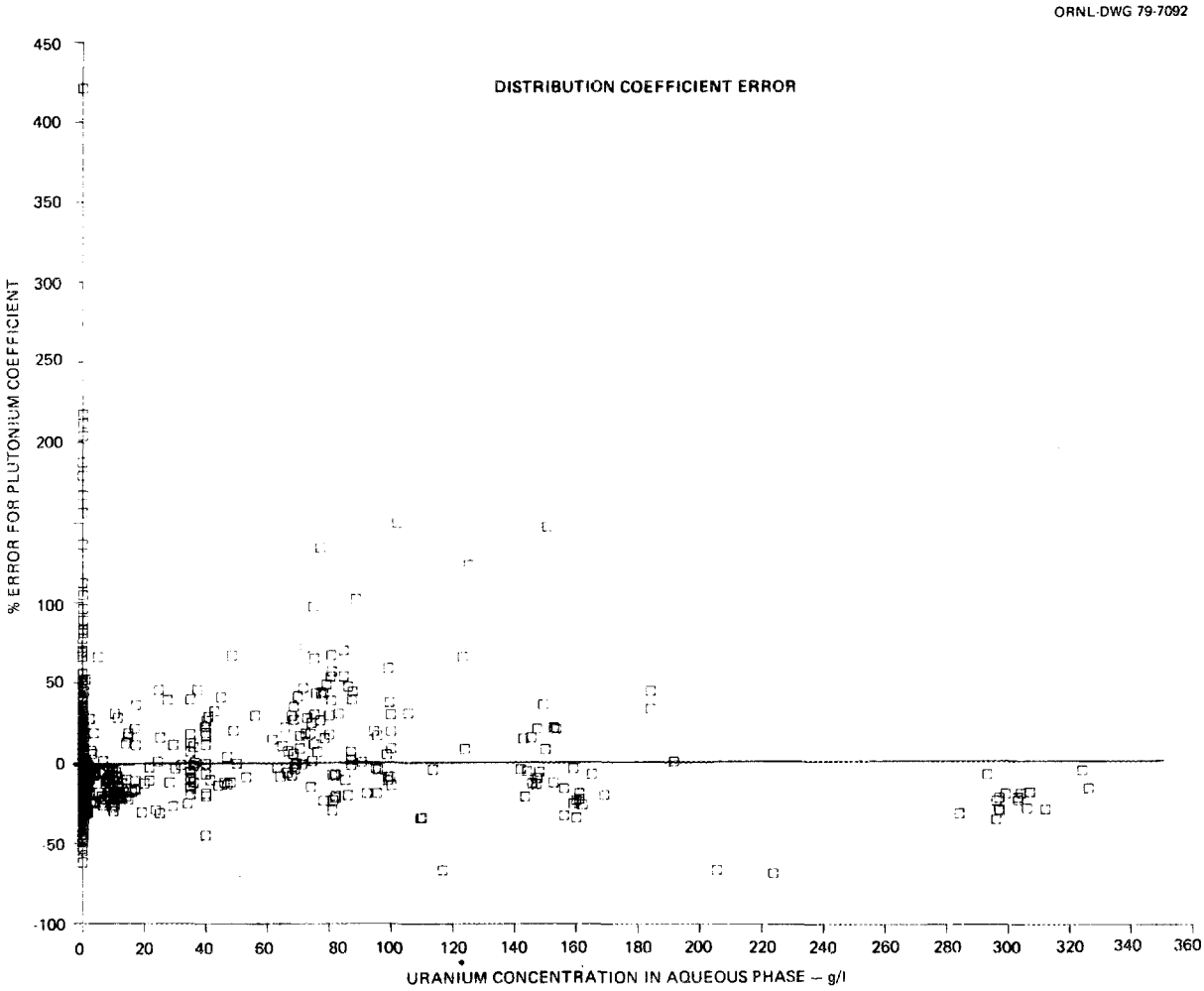

Fig. A.6. Error ratio of the plutonium(IV) distribution coefficient vs uranium concentration. Error ratio = $\frac{\text{calculated value} - \text{experimental value}}{\text{experimental value}} \times 100$; calculated value is from uncorrected UCOR subroutine.

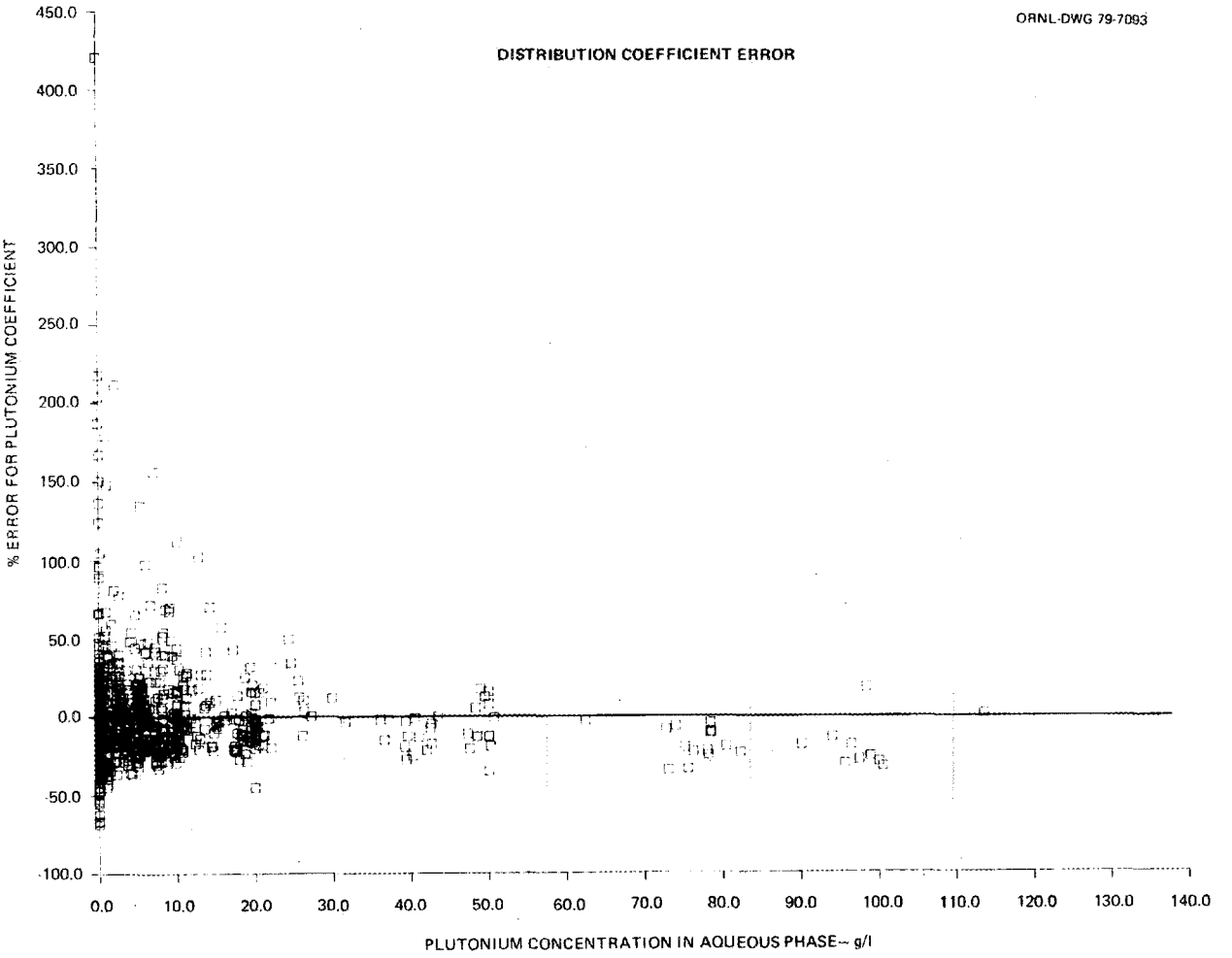

Fig. A.7. Error ratio of the plutonium(IV) distribution coefficient vs plutonium(IV) concentration. Error ratio = $\frac{\text{calculated value} - \text{experimental value}}{\text{experimental value}} \times 100$; calculated value is from uncorrected UCOR subroutine.

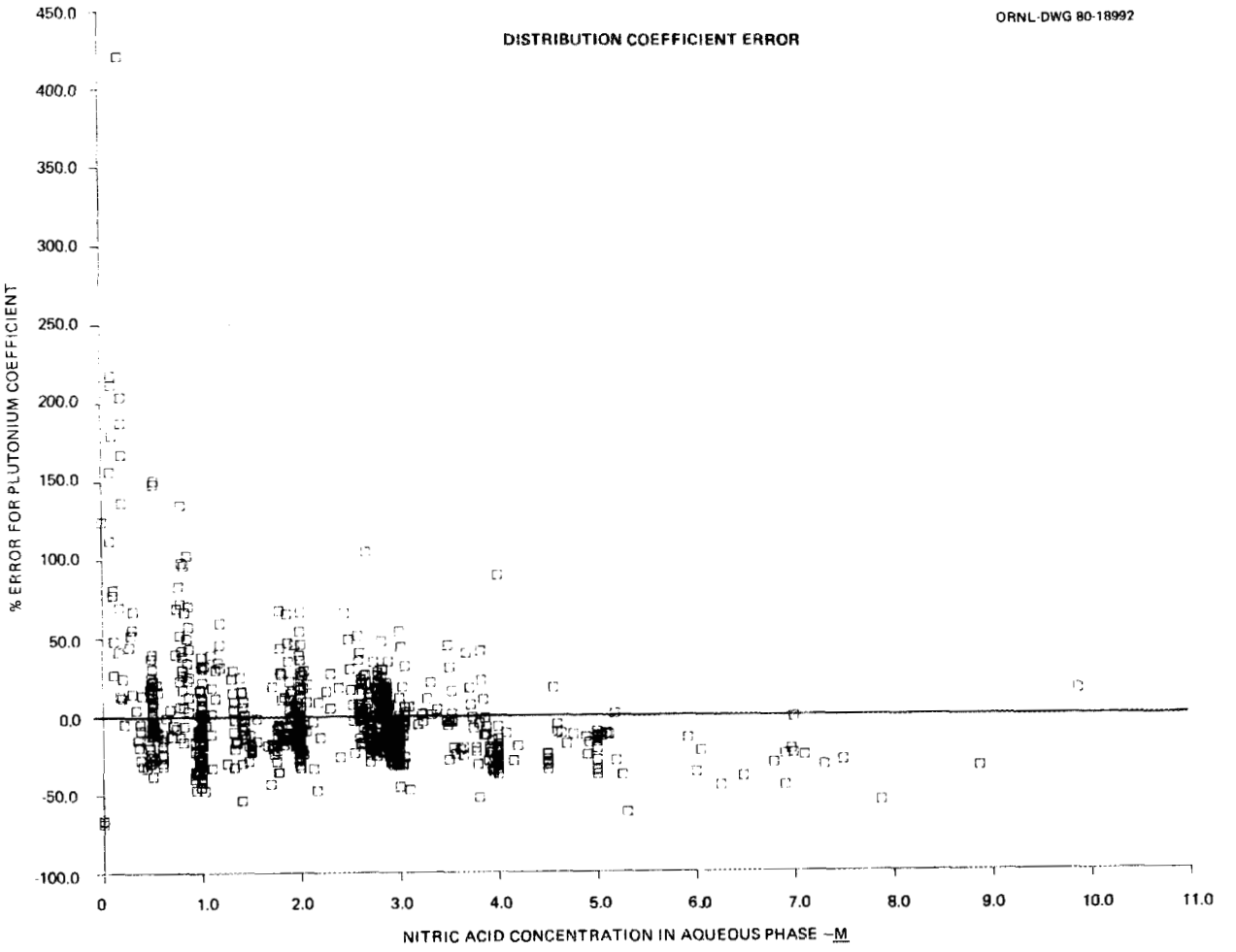

Fig. A.8. Error ratio of the plutonium(IV) distribution coefficient vs nitric acid concentration. Error ratio = $\frac{\text{calculated value} - \text{experimental value}}{\text{experimental value}} \times 100$; calculated value is from uncorrected UCOR subroutine.

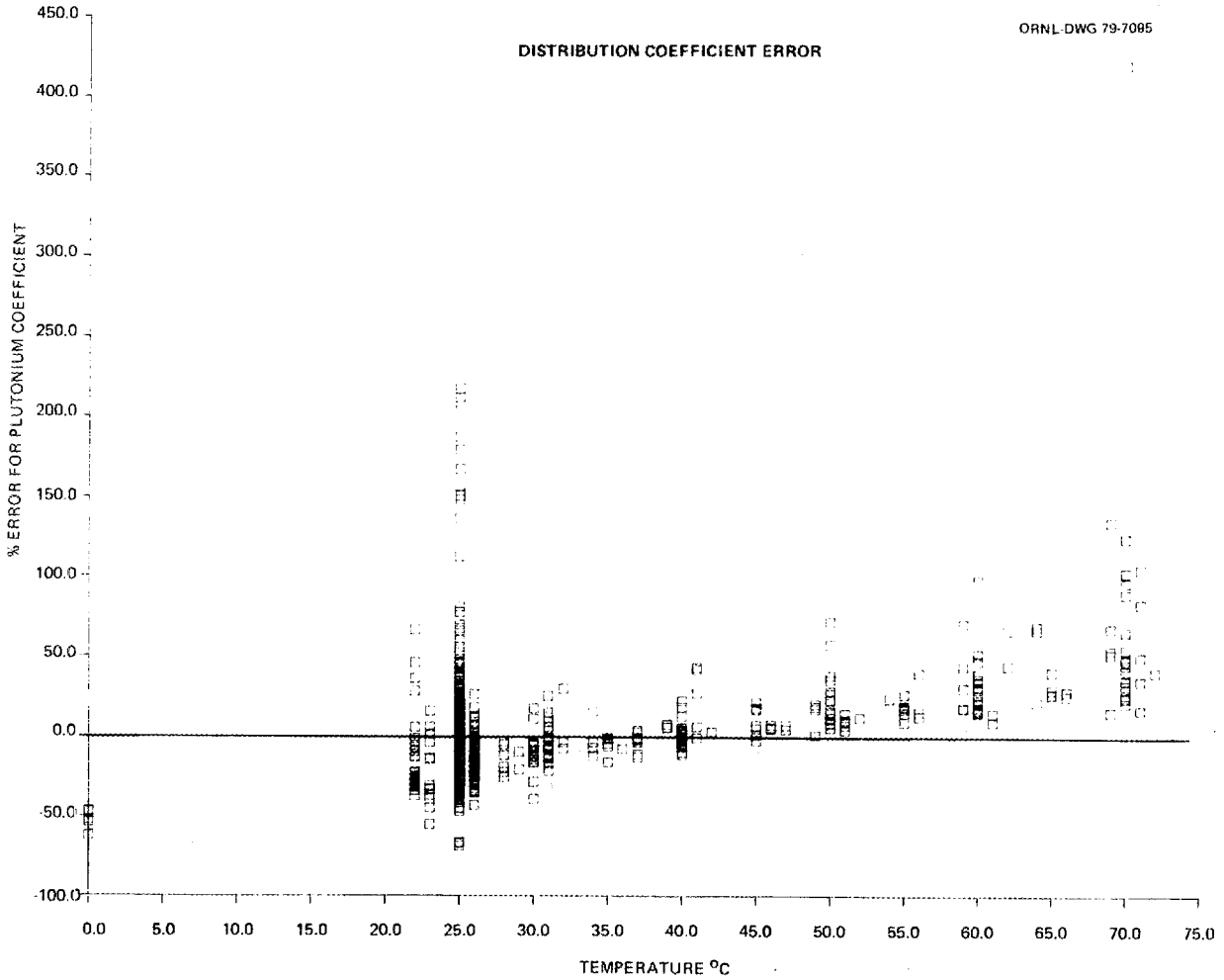

Fig. A.9. Error ratio of the plutonium(IV) distribution coefficient vs temperature. Error ratio = $\frac{\text{calculated value} - \text{experimental value}}{\text{experimental value}} \times 100$; calculated value is from uncorrected UCOR subroutine.

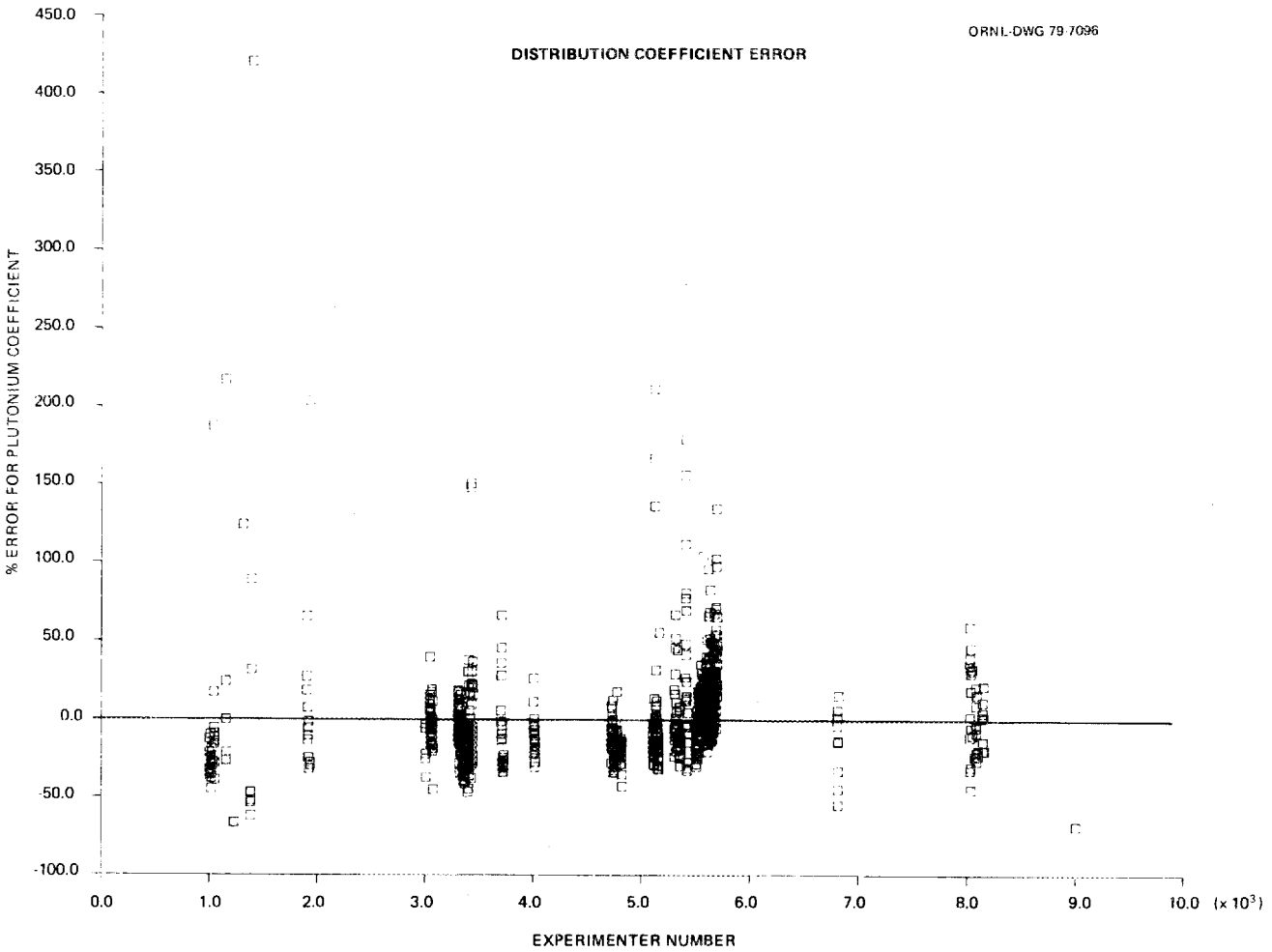

Fig. A.10. Error ratio of the plutonium(IV) distribution coefficient vs experimenter number. Error ratio = $\frac{\text{calculated value} - \text{experimental value}}{\text{experimental value}} \times 100$; calculated value is from uncorrected UCOR subroutine.

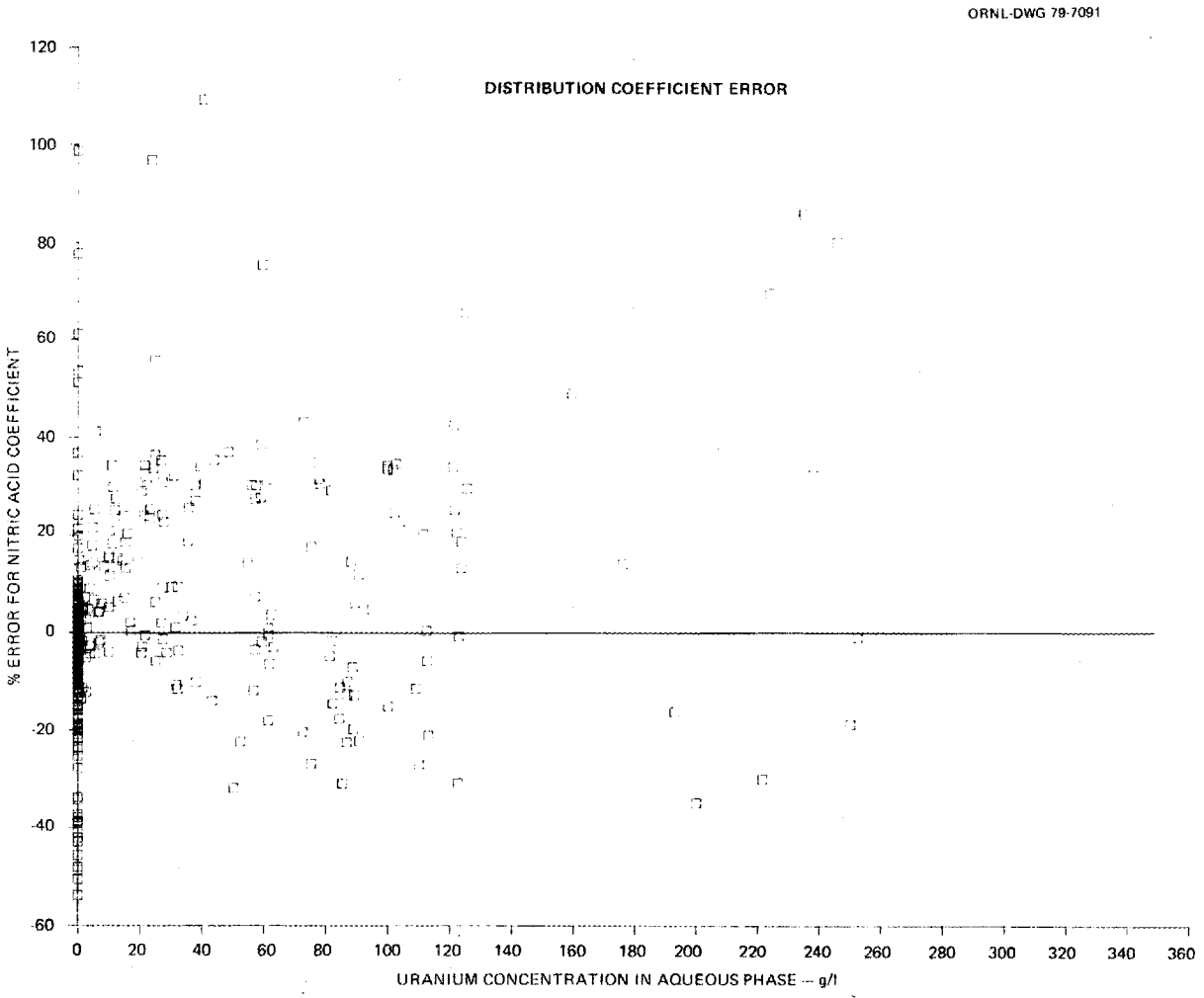

Fig. A.11. Error ratio of the nitric acid distribution coefficient vs uranium concentration. Error ratio = $\frac{\text{calculated value} - \text{experimental value}}{\text{experimental value}} \times 100$; calculated value is from uncorrected UCOR subroutine.

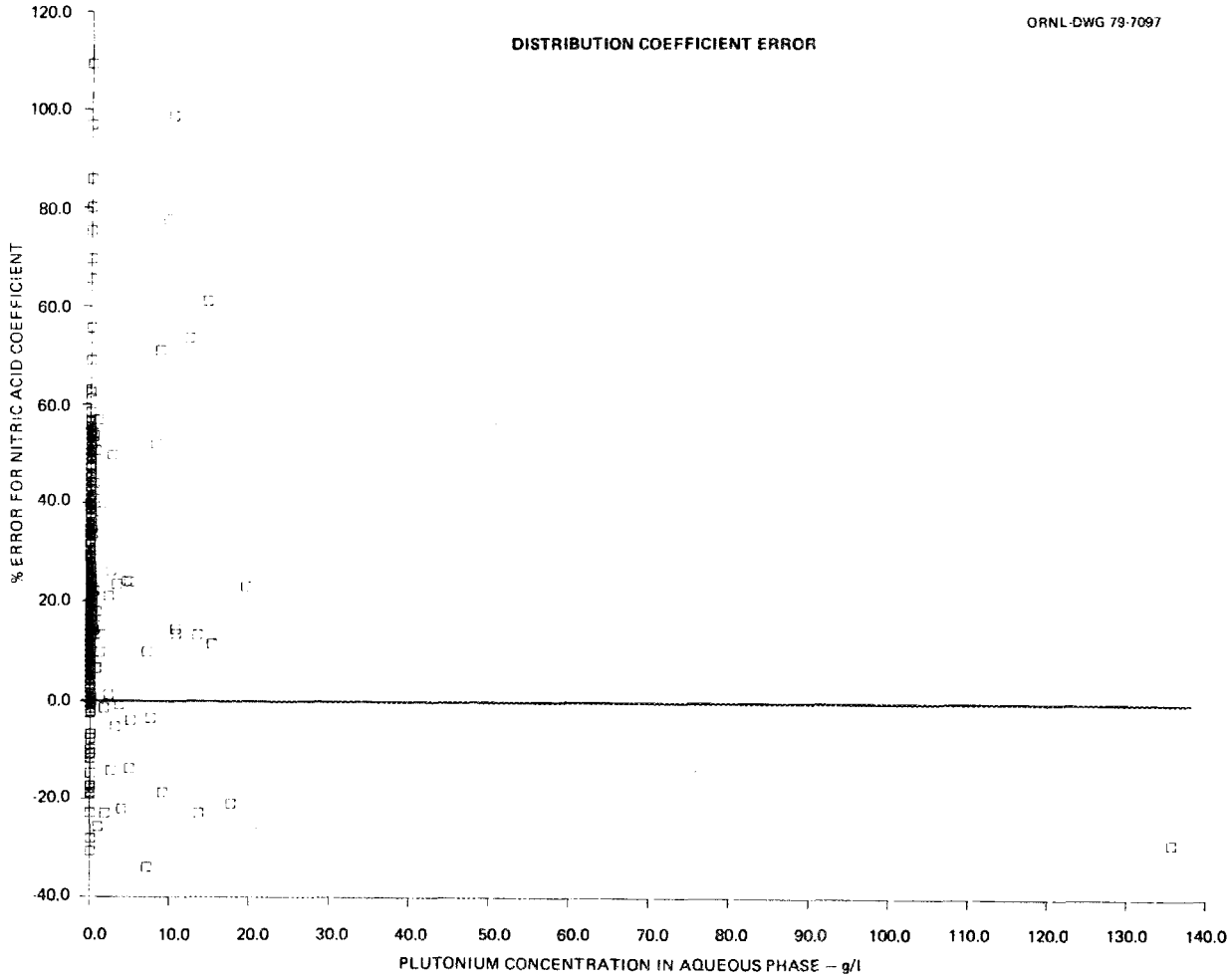

Fig. A.12. Error ratio of the nitric acid distribution coefficient vs plutonium(IV) concentration. Error ratio = $\frac{\text{calculated value} - \text{experimental value}}{\text{experimental value}} \times 100$; calculated value is from uncorrected UCOR subroutine.

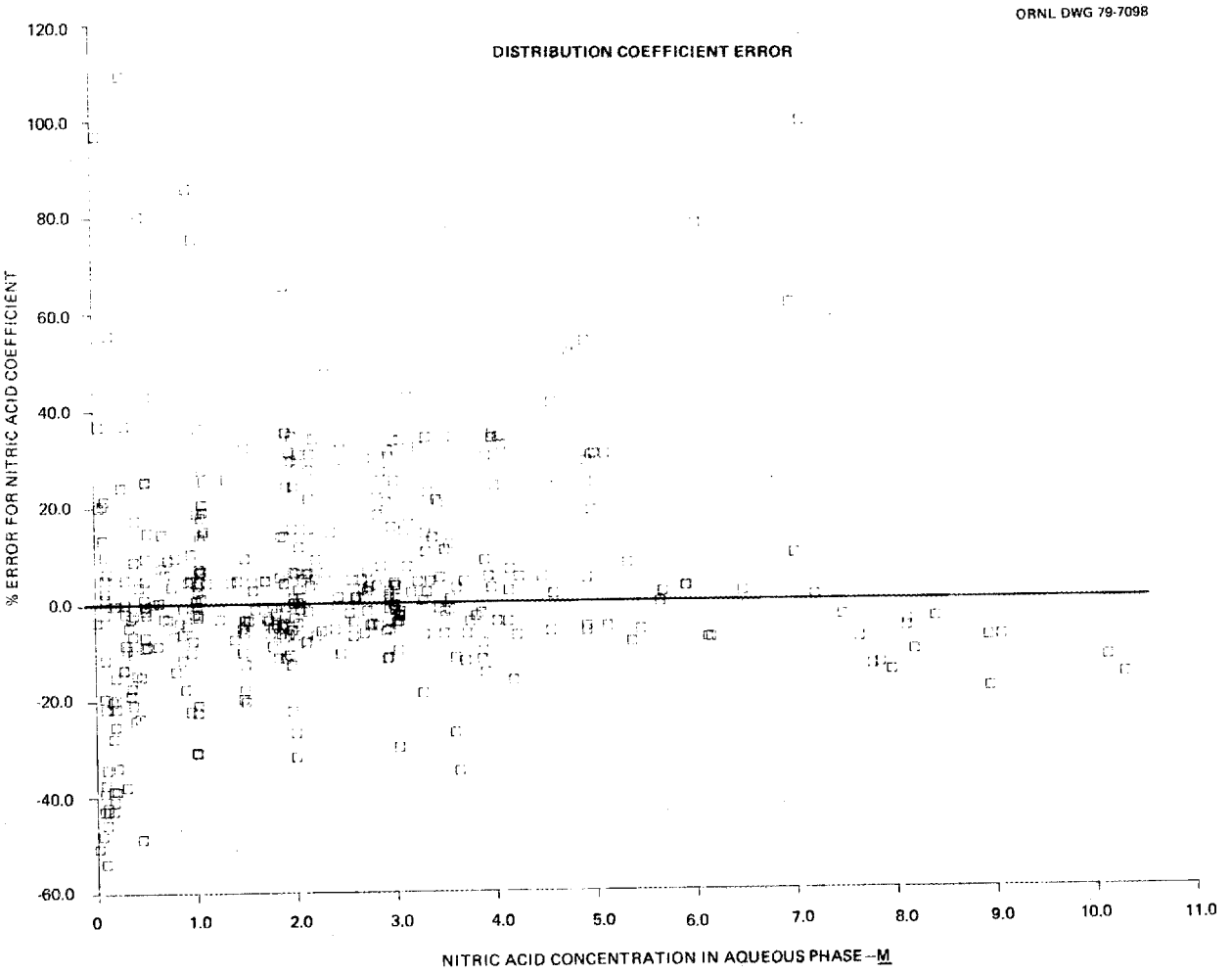

Fig. A.13. Error ratio of the nitric acid distribution coefficient vs nitric acid concentration. Error ratio = $\frac{\text{calculated value - experimental value}}{\text{experimental value}} \times 100$; calculated value is from uncorrected UCOR subroutine.

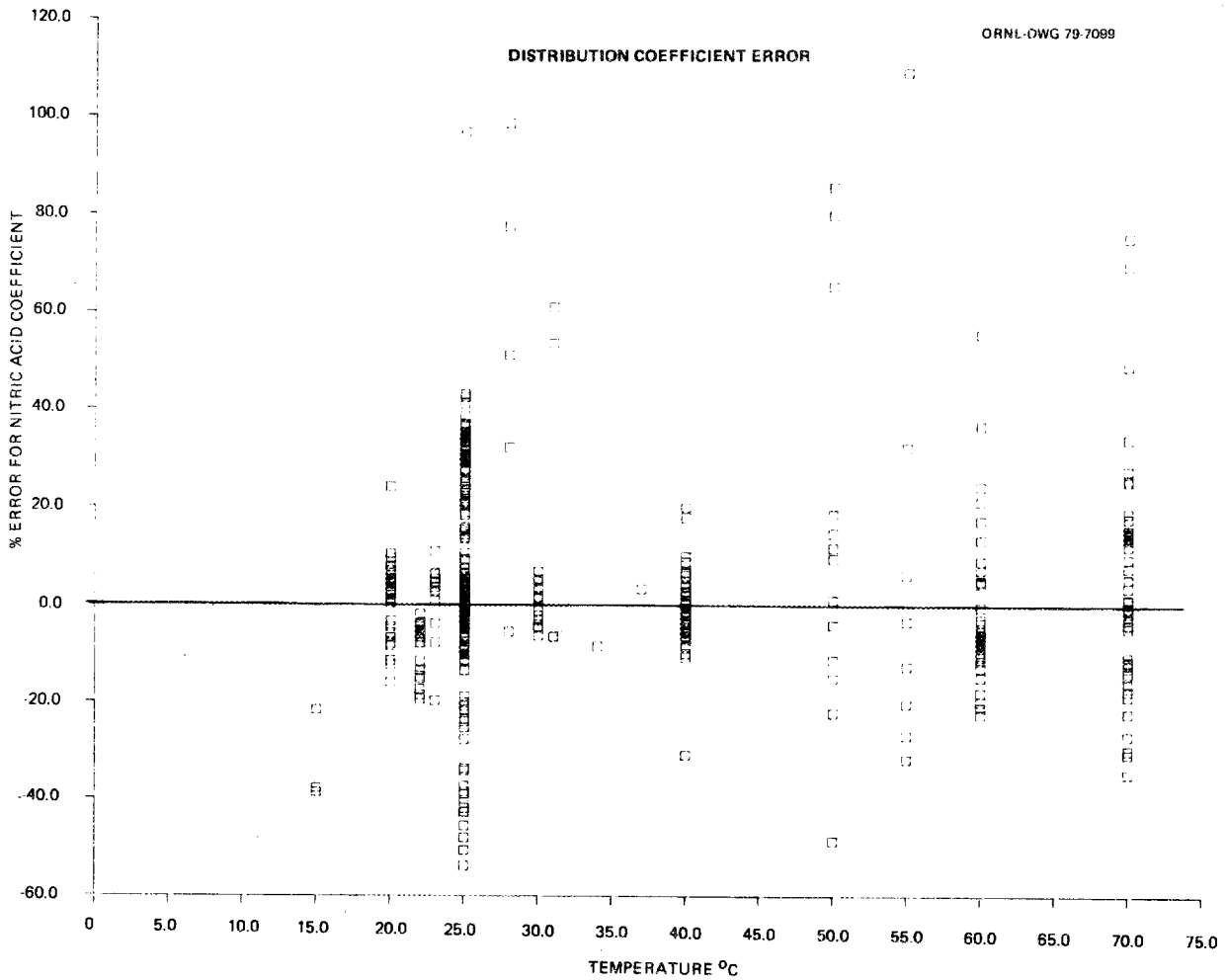

Fig. A.14. Error ratio of the nitric acid distribution coefficient vs temperature. Error ratio = $\frac{\text{calculated value} - \text{experimental value}}{\text{experimental value}} \times 100$; calculated value is from uncorrected UCOR subroutine.

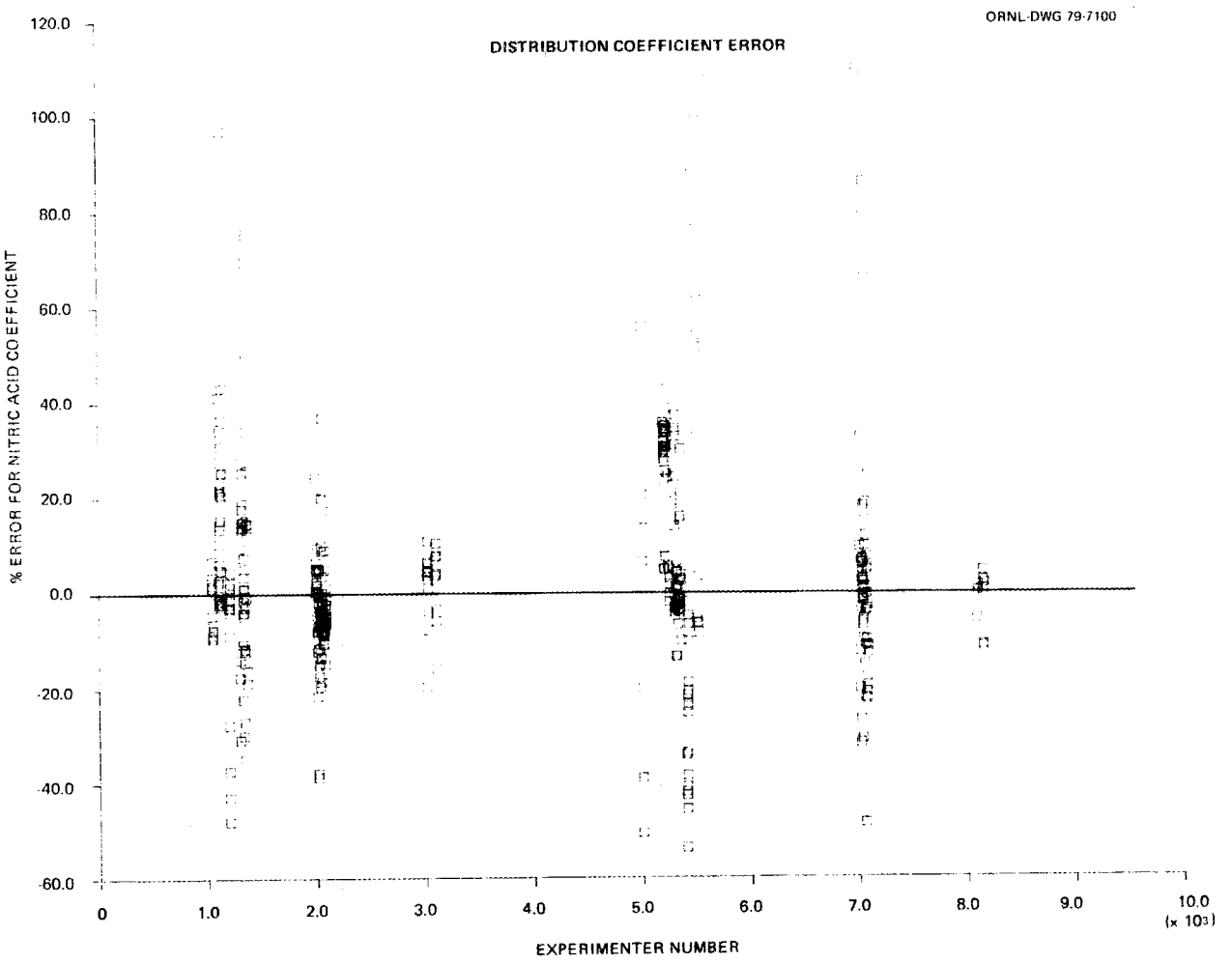

Fig. A.15. Error ratio of the nitric acid distribution coefficient vs experimenter number. Error ratio = $\frac{\text{calculated value} - \text{experimental value}}{\text{experimental value}} \times 100$; calculated value is from uncorrected UCOR subroutine.

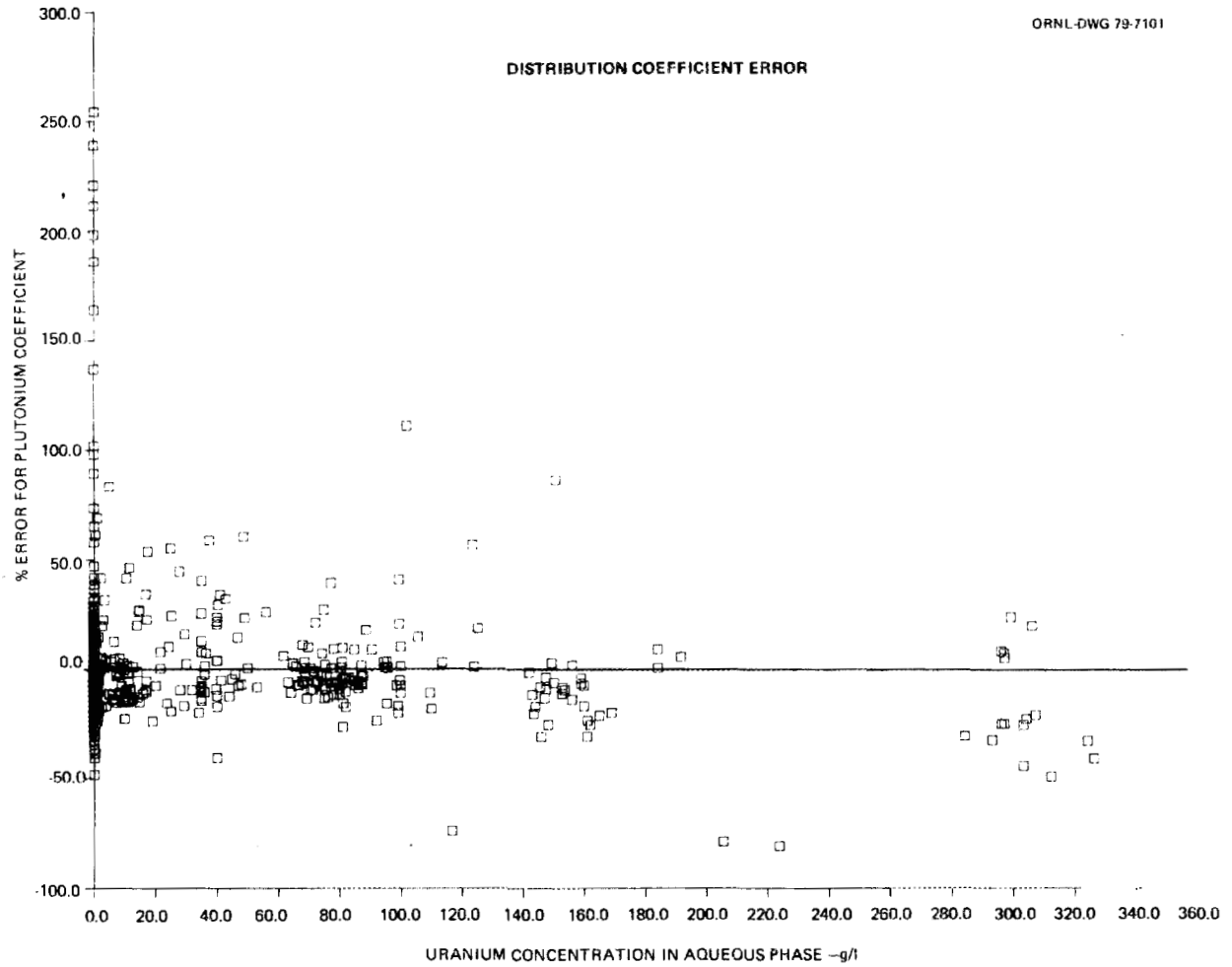

Fig. A.16. Error ratio of the plutonium(IV) distribution coefficient vs uranium concentration. Error ratio = $\frac{\text{calculated value} - \text{experimental value}}{\text{experimental value}} \times 100$; calculated value is from corrected UCOR subroutine based on data points with nitric acid > 0.03 *M*.

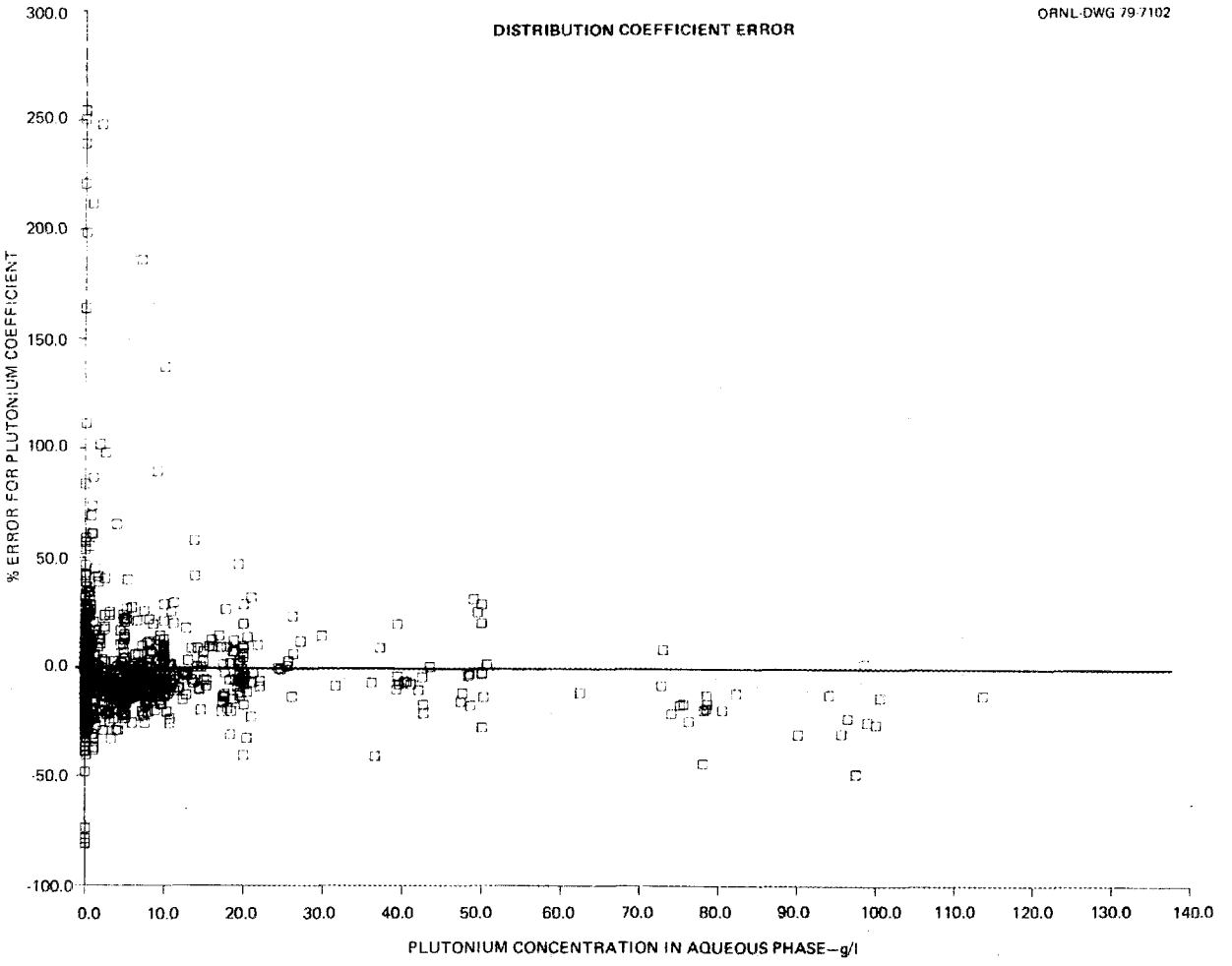

Fig. A.17. Error ratio of the plutonium(IV) distribution coefficient vs plutonium(IV) concentration. Error ratio = $\frac{\text{calculated value} - \text{experimental value}}{\text{experimental value}} \times 100$; calculated value is from corrected UCOR subroutine based on data points with nitric acid > 0.03 *M*.

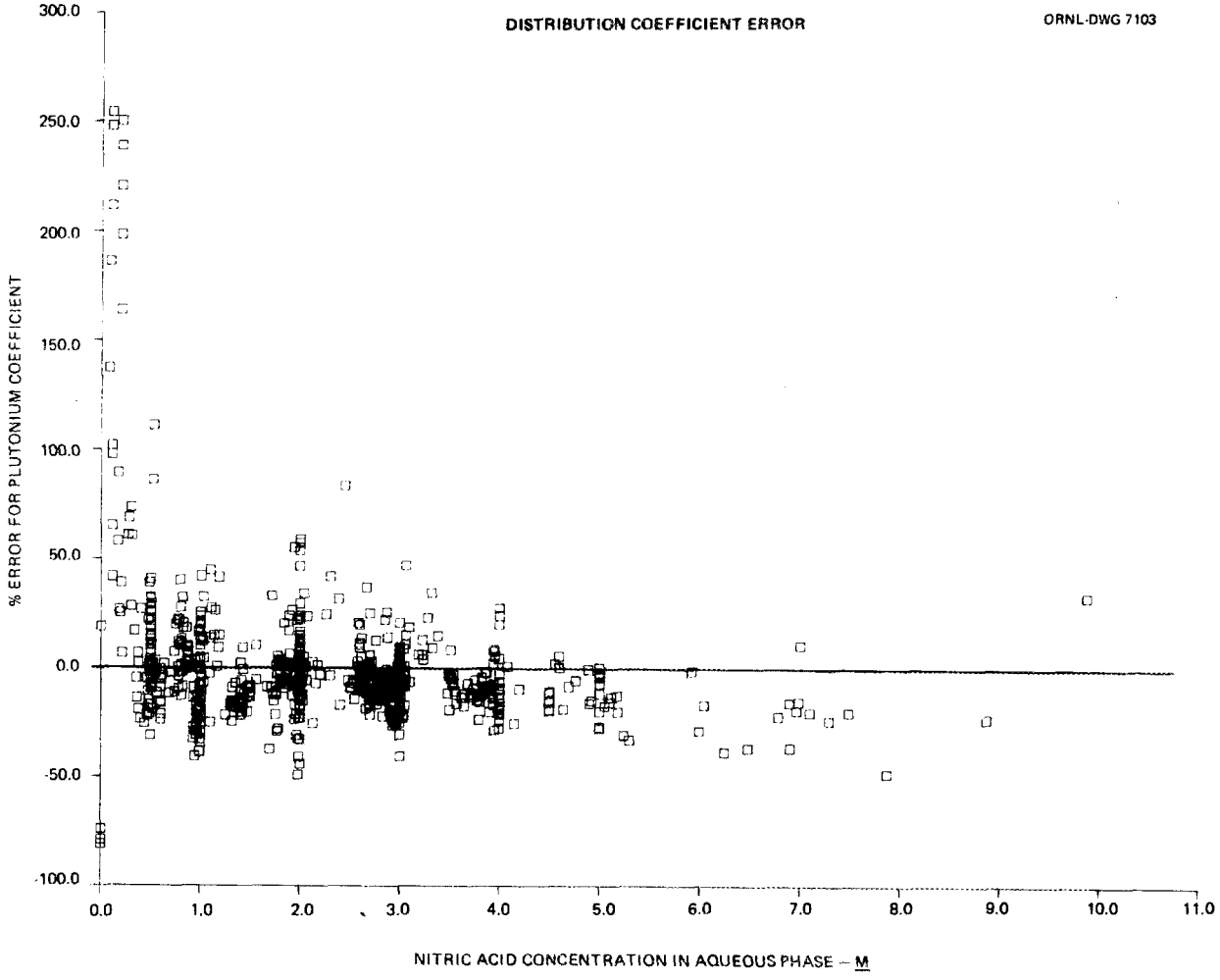

Fig. A.18. Error ratio of the plutonium(IV) distribution coefficient vs nitric acid concentration. Error ratio = $\frac{\text{calculated value} - \text{experimental value}}{\text{experimental value}} \times 100$; calculated value is from corrected UCOR subroutine based on data points with nitric acid > 0.03 *M*.

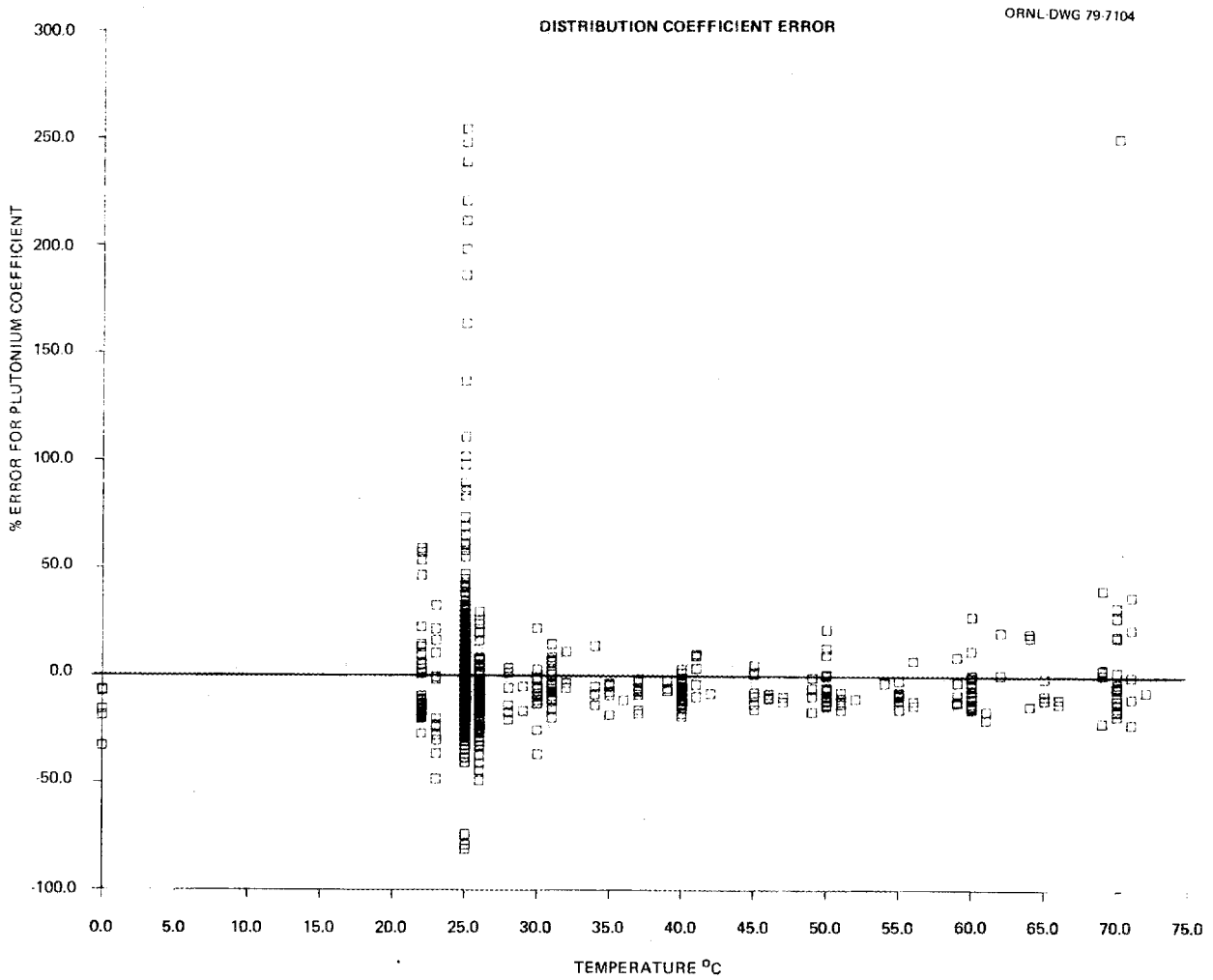

Fig. A.19. Error ratio of the plutonium(IV) distribution coefficient vs temperature. Error ratio = $\frac{\text{calculated value} - \text{experimental value}}{\text{experimental value}} \times 100$; calculated value is from corrected UCOR subroutine based on data points with nitric acid > 0.03 *M*.

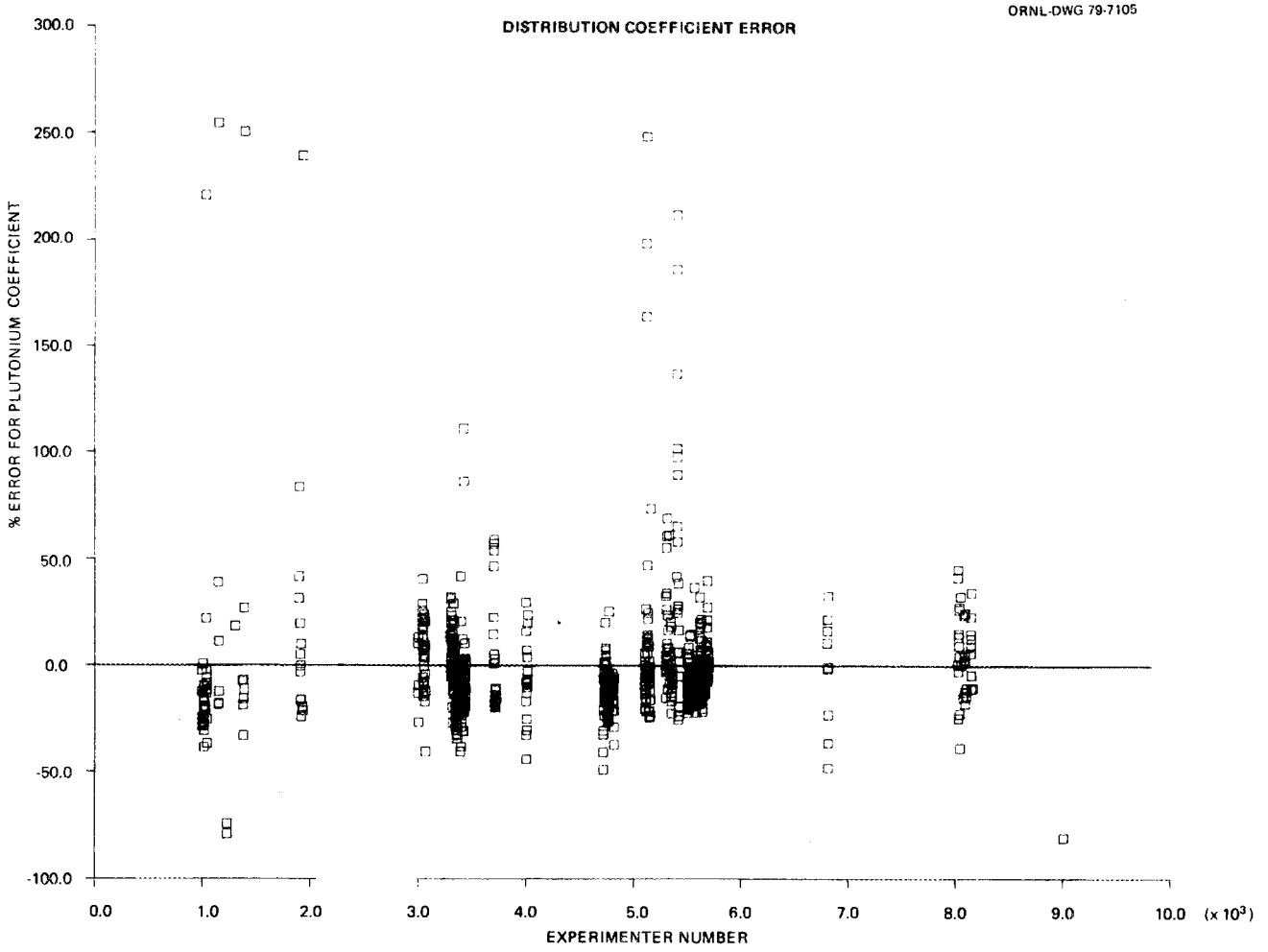

Fig. A.20. Error ratio of the plutonium(IV) distribution coefficient vs experimenter number. Error ratio = $\frac{\text{calculated value} - \text{experimental value}}{\text{experimental value}} \times 100$; calculated value is from corrected UCOR subroutine based on data points with nitric acid > 0.03 *M*.

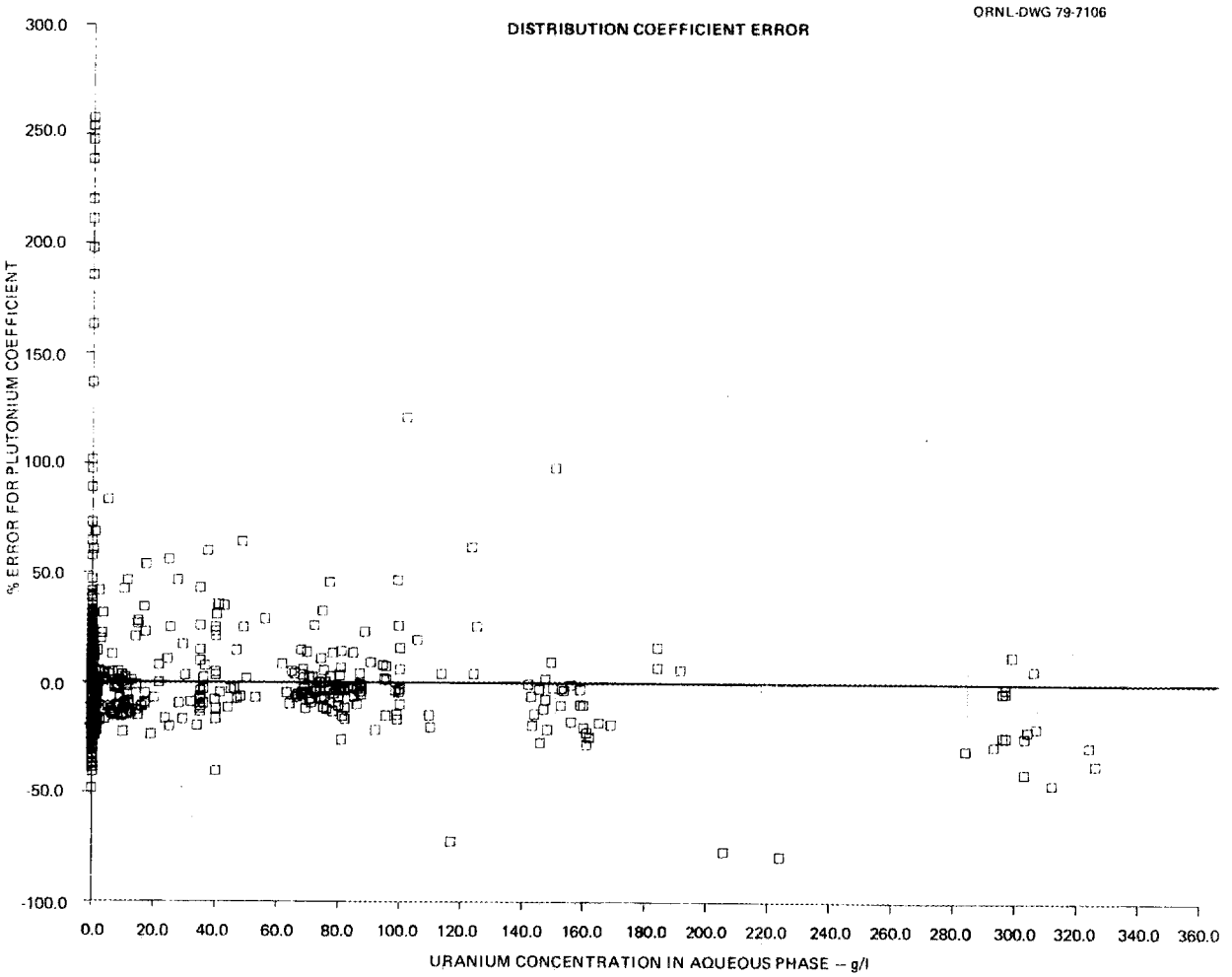

Fig. A.21. Error ratio of the plutonium(IV) distribution coefficient vs uranium concentration. Error ratio = $\frac{\text{calculated value} - \text{experimental value}}{\text{experimental value}} \times 100$; calculated value is from corrected UCOR subroutine based on data points with nitric acid > 0.03 *M* and a maximum error < 100%.

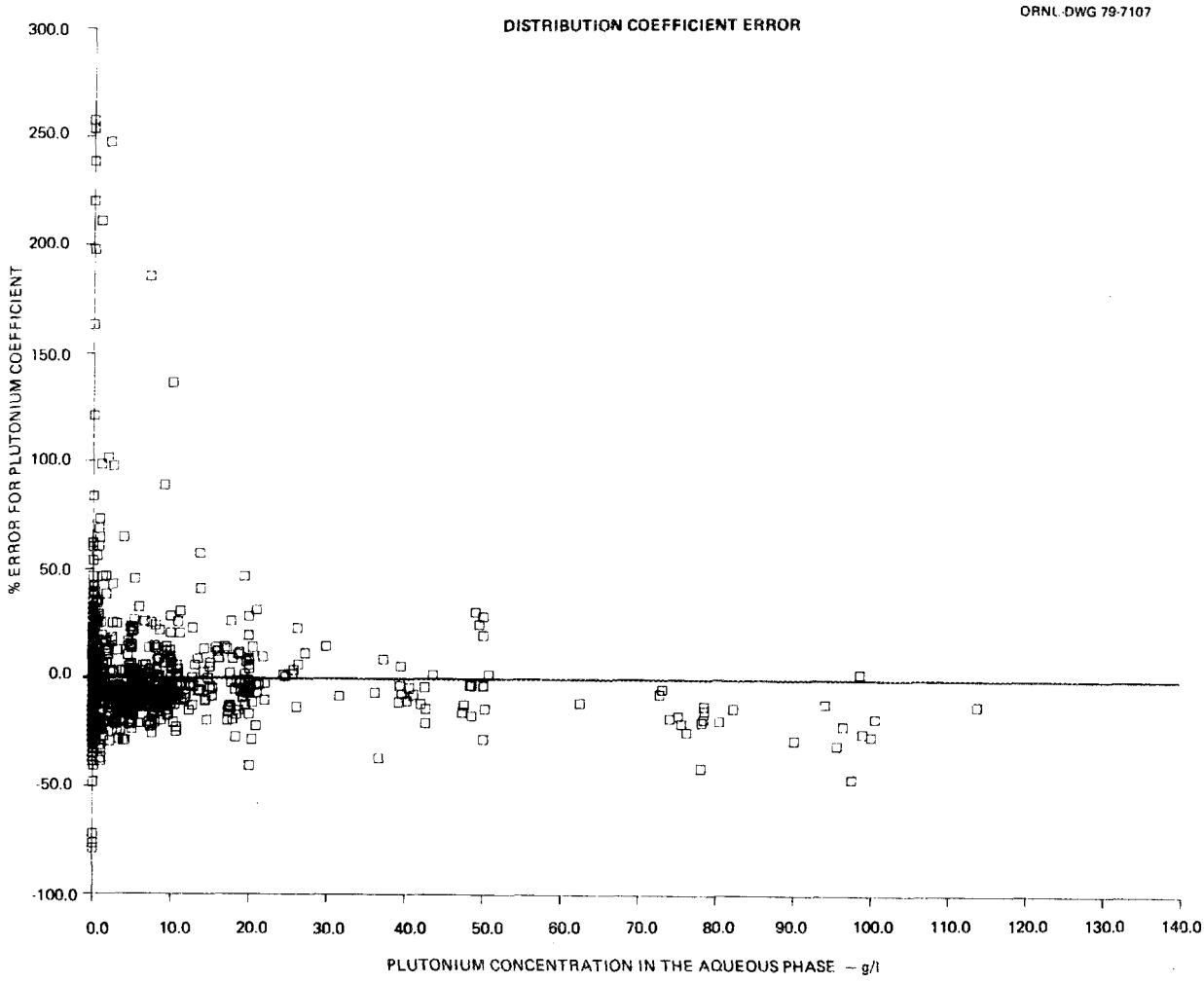

Fig. A.22. Error ratio of the plutonium(IV) distribution coefficient vs plutonium(IV) concentration. Error ratio = $\frac{\text{calculated value} - \text{experimental value}}{\text{experimental value}} \times 100$; calculated value is from corrected UCOR subroutine based on data points with nitric acid > 0.03 *M* and a maximum error < 100%.

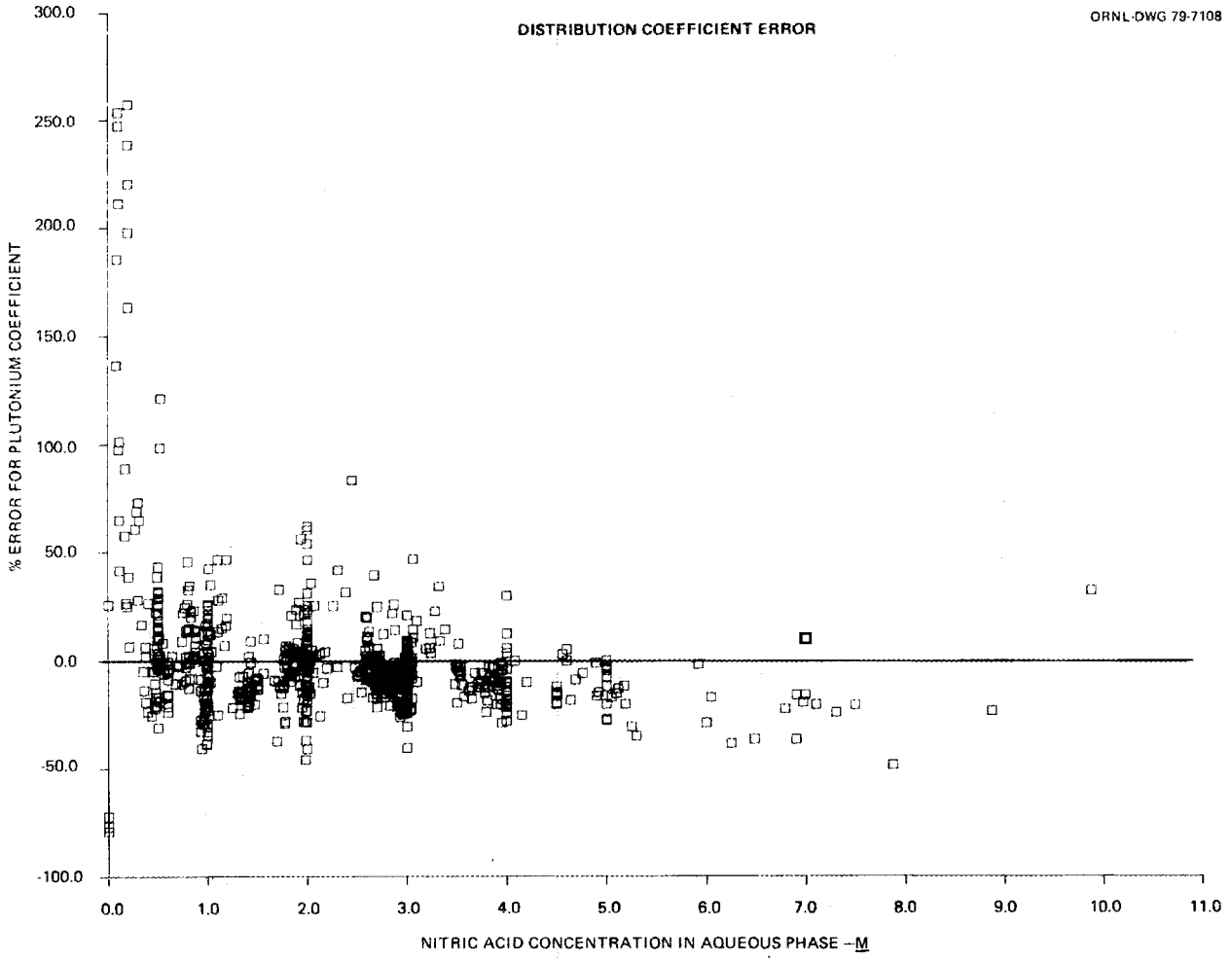

Fig. A.23. Error ratio of the plutonium(IV) distribution coefficient vs nitric acid concentration. Error ratio = $\frac{\text{calculated value} - \text{experimental value}}{\text{experimental value}} \times 100$; calculated value is from corrected UCOR subroutine based on data points with nitric acid > 0.03 *M* and a maximum error < 100%.

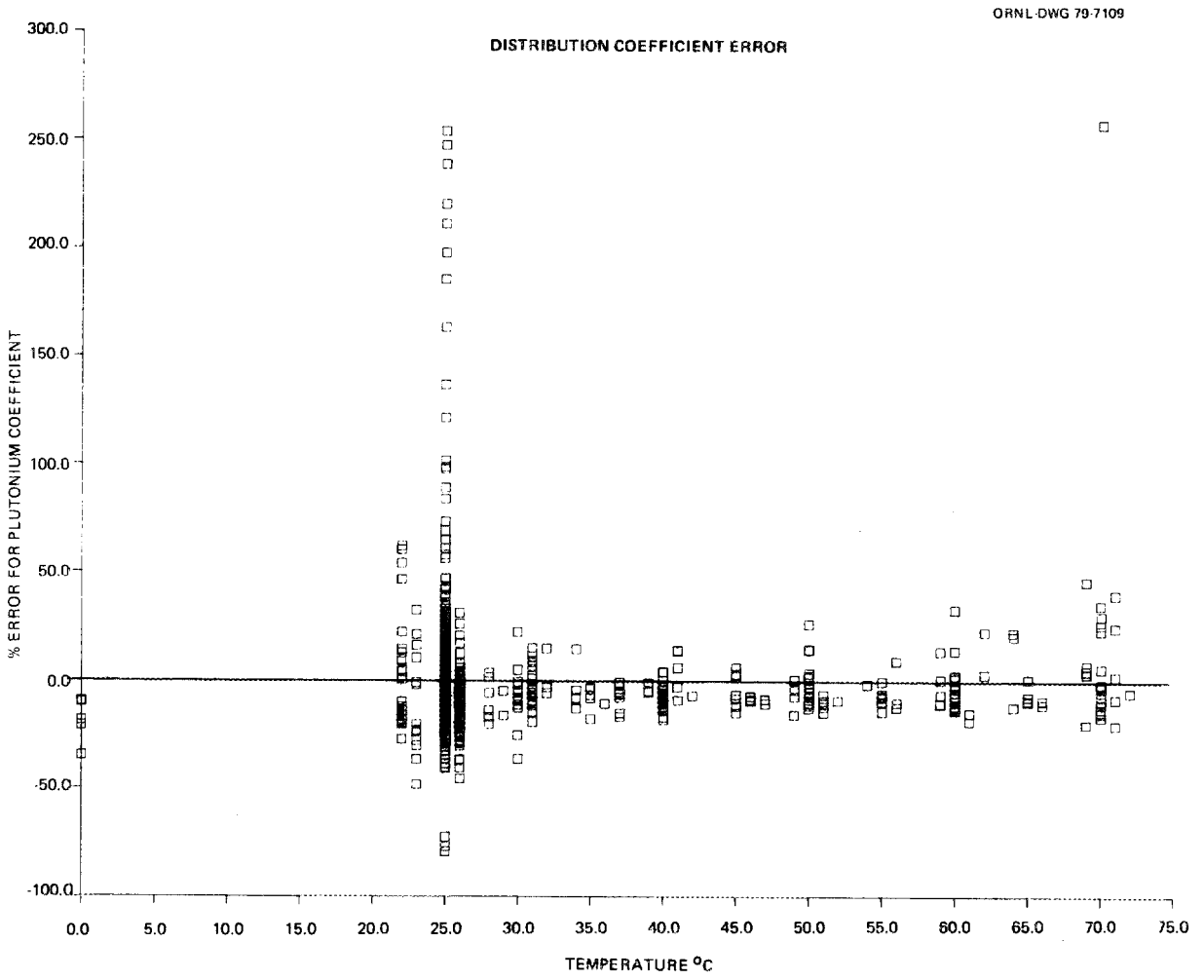

Fig. A.24. Error ratio of the plutonium(IV) distribution coefficient vs temperature. Error ratio = $\frac{\text{calculated value} - \text{experimental value}}{\text{experimental value}} \times 100$; calculated value is from corrected UCOR subroutine based on data points with nitric acid > 0.03 *M* and a maximum error < 100%.

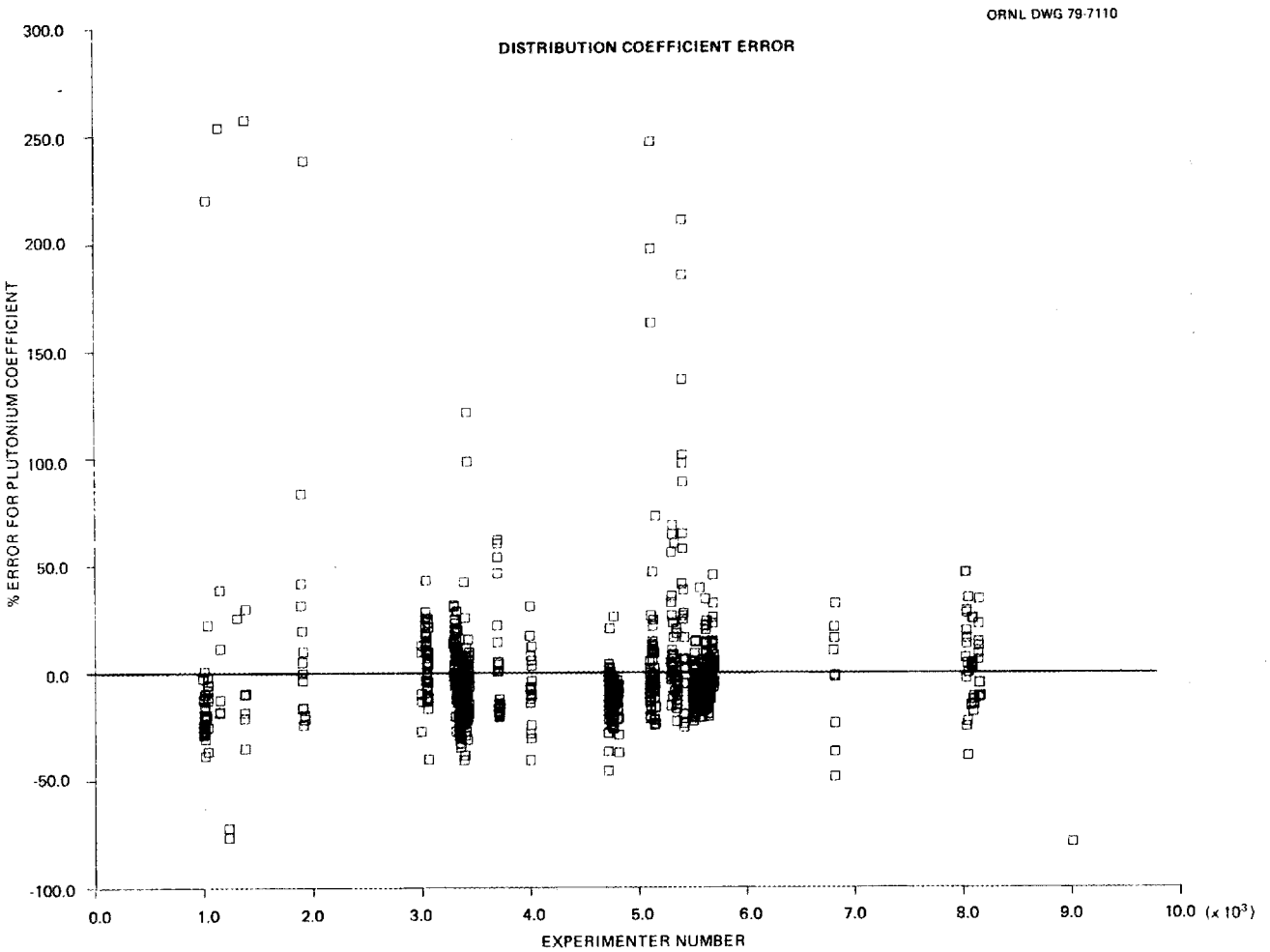

Fig. A.25. Error ratio of the plutonium(IV) distribution coefficient vs experimenter number. Error ratio = $\frac{\text{calculated value} - \text{experimental value}}{\text{experimental value}} \times 100$; calculated value is from corrected UCOR subroutine based on data points with nitric acid > 0.03 *M* and a maximum error < 100%.

Appendix B

Distribution coefficient tables and maps for uranium, plutonium(IV), and nitric acid in the system of uranyl nitrate, plutonium(IV) nitrate, nitric acid, water, and 30% TBP in aliphatic diluents

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

URANIUM 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
TRACE	0.15	0.26	0.38	0.51	0.63	0.75	0.85	0.94	1.01	1.07	1.11	1.14	1.16	1.17	1.18	1.18	1.17	1.16	1.15	1.13
10.0	0.37	0.49	0.61	0.72	0.82	0.90	0.97	1.02	1.06	1.09	1.11	1.12	1.13	1.13	1.12	1.12	1.11	1.09	1.08	1.06
20.0	0.59	0.70	0.79	0.86	0.93	0.98	1.02	1.04	1.06	1.08	1.08	1.08	1.08	1.07	1.07	1.05	1.04	1.03	1.01	1.00
30.0	0.76	0.83	0.89	0.94	0.97	1.00	1.02	1.03	1.04	1.04	1.04	1.04	1.03	1.02	1.01	1.00	0.98	0.97	0.95	0.94
40.0	0.85	0.90	0.93	0.96	0.98	0.99	1.00	1.00	1.00	1.00	0.99	0.99	0.98	0.96	0.95	0.94	0.93	0.91	0.90	0.88
50.0	0.90	0.93	0.94	0.96	0.96	0.97	0.97	0.97	0.96	0.95	0.95	0.94	0.92	0.91	0.90	0.89	0.87	0.86	0.85	0.83
60.0	0.91	0.92	0.93	0.94	0.94	0.93	0.93	0.92	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	0.90	0.90	0.91	0.90	0.90	0.90	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.79	0.78	0.77	0.76	0.75
80.0	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	0.78	0.77	0.75	0.74	0.73	0.72	0.71
90.0	0.85	0.84	0.84	0.83	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	0.69	0.68	0.67
100.0	0.82	0.81	0.80	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	0.67	0.66	0.65	0.64
110.0	0.78	0.78	0.77	0.76	0.75	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	0.62	0.61
120.0	0.75	0.75	0.74	0.73	0.72	0.71	0.70	0.69	0.69	0.68	0.67	0.66	0.65	0.64	0.63	0.62	0.61	0.60	0.59	0.58
130.0	0.72	0.71	0.71	0.70	0.69	0.68	0.67	0.66	0.66	0.65	0.64	0.63	0.62	0.61	0.60	0.59	0.58	0.58	0.57	0.56
140.0	0.69	0.68	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	0.57	0.56	0.55	0.54	0.54
150.0	0.66	0.66	0.65	0.64	0.63	0.62	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
160.0	0.64	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	0.52	0.51	0.50	0.49
170.0	0.61	0.60	0.60	0.59	0.58	0.57	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
180.0	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	0.48	0.47	0.46	0.46
190.0	0.56	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	0.47	0.46	0.45	0.45	0.44

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

URANIUM 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
TRACE	0.09	0.16	0.23	0.31	0.39	0.46	0.52	0.57	0.62	0.65	0.68	0.70	0.71	0.72	0.72	0.72	0.72	0.72	0.71	0.70
10.0	0.22	0.29	0.36	0.43	0.48	0.53	0.57	0.61	0.63	0.65	0.66	0.67	0.67	0.67	0.67	0.67	0.66	0.66	0.65	0.64
20.0	0.34	0.40	0.45	0.50	0.53	0.56	0.59	0.60	0.62	0.62	0.63	0.63	0.63	0.63	0.62	0.62	0.61	0.60	0.60	0.59
30.0	0.42	0.47	0.50	0.53	0.55	0.56	0.58	0.58	0.59	0.59	0.59	0.59	0.58	0.58	0.58	0.57	0.56	0.56	0.55	0.54
40.0	0.47	0.49	0.51	0.53	0.54	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.54	0.54	0.53	0.53	0.52	0.51	0.50	0.50
50.0	0.48	0.50	0.51	0.51	0.52	0.52	0.52	0.52	0.52	0.52	0.51	0.51	0.50	0.50	0.49	0.49	0.48	0.47	0.47	0.46
60.0	0.48	0.48	0.49	0.49	0.49	0.49	0.49	0.49	0.48	0.48	0.48	0.47	0.47	0.46	0.46	0.45	0.44	0.44	0.43	0.43
70.0	0.46	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	0.42	0.41	0.41	0.40	0.40
80.0	0.44	0.44	0.44	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	0.37
90.0	0.42	0.42	0.41	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	0.35	0.35	0.34
100.0	0.39	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	0.34	0.34	0.33	0.33	0.32
110.0	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	0.33	0.32	0.32	0.31	0.31	0.31	0.30
120.0	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	0.29	0.29	0.29
130.0	0.33	0.33	0.32	0.32	0.32	0.31	0.31	0.31	0.30	0.30	0.30	0.29	0.29	0.29	0.28	0.28	0.28	0.28	0.27	0.27
140.0	0.31	0.31	0.30	0.30	0.30	0.30	0.29	0.29	0.29	0.28	0.28	0.28	0.27	0.27	0.27	0.27	0.26	0.26	0.26	0.25
150.0	0.29	0.29	0.29	0.28	0.28	0.28	0.28	0.27	0.27	0.27	0.27	0.26	0.26	0.26	0.25	0.25	0.25	0.25	0.24	0.24
160.0	0.28	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	0.24	0.23	0.23	0.23
170.0	0.26	0.26	0.26	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
180.0	0.25	0.25	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
190.0	0.24	0.23	0.23	0.23	0.23	0.23	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

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*10C

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

URANIUM 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
TRACE	4.36	5.76	6.99	8.03	8.87	9.50	9.94	10.20	10.33	10.33	10.25	10.09	9.89	9.66	9.40	9.13	8.85	8.57	8.29	8.02
10.0	6.87	7.86	8.64	9.23	9.63	9.88	9.99	9.99	9.92	9.77	9.59	9.37	9.13	8.88	8.62	8.36	8.10	7.84	7.58	7.34
20.0	8.43	8.98	9.35	9.58	9.68	9.68	9.61	9.48	9.31	9.10	8.88	8.65	8.40	8.15	7.91	7.66	7.42	7.19	6.96	6.74
30.0	9.09	9.30	9.39	9.40	9.33	9.21	9.04	8.86	8.65	8.42	8.20	7.96	7.73	7.50	7.27	7.05	6.83	6.62	6.42	6.22
40.0	9.13	9.13	9.07	8.95	8.80	8.62	8.43	8.22	8.00	7.78	7.56	7.34	7.13	6.91	6.71	6.51	6.31	6.12	5.94	5.77
50.0	8.82	8.71	8.57	8.40	8.22	8.02	7.82	7.61	7.40	7.19	6.99	6.78	6.59	6.39	6.21	6.03	5.85	5.68	5.52	5.37
60.0	8.36	8.20	8.02	7.84	7.64	7.45	7.25	7.05	6.85	6.66	6.47	6.29	6.11	5.93	5.76	5.60	5.45	5.30	5.15	5.01
70.0	7.84	7.66	7.48	7.29	7.10	6.91	6.72	6.54	6.36	6.18	6.01	5.84	5.68	5.52	5.37	5.23	5.09	4.95	4.83	4.70
80.0	7.32	7.14	6.96	6.78	6.60	6.42	6.25	6.08	5.91	5.75	5.60	5.45	5.30	5.16	5.03	4.90	4.77	4.65	4.54	4.43
90.0	6.83	6.66	6.48	6.31	6.15	5.98	5.82	5.67	5.52	5.37	5.23	5.09	4.96	4.84	4.72	4.60	4.49	4.38	4.28	4.18
100.0	6.37	6.21	6.05	5.89	5.73	5.59	5.44	5.30	5.16	5.03	4.90	4.78	4.66	4.55	4.44	4.34	4.24	4.14	4.05	3.96
110.0	5.95	5.80	5.65	5.50	5.36	5.23	5.10	4.97	4.84	4.73	4.61	4.50	4.40	4.29	4.20	4.10	4.01	3.93	3.84	3.76
120.0	5.57	5.43	5.29	5.16	5.03	4.91	4.79	4.67	4.56	4.45	4.35	4.25	4.16	4.06	3.98	3.89	3.81	3.73	3.66	3.59
130.0	5.22	5.09	4.97	4.85	4.73	4.62	4.51	4.41	4.31	4.21	4.12	4.03	3.94	3.86	3.78	3.70	3.63	3.56	3.49	3.43
140.0	4.91	4.79	4.68	4.57	4.46	4.36	4.26	4.17	4.08	3.99	3.91	3.83	3.75	3.67	3.60	3.53	3.47	3.40	3.34	3.28
150.0	4.62	4.52	4.41	4.31	4.22	4.13	4.04	3.95	3.87	3.79	3.72	3.64	3.57	3.51	3.44	3.38	3.32	3.26	3.21	3.15
160.0	4.37	4.27	4.18	4.09	4.00	3.92	3.84	3.76	3.69	3.61	3.55	3.48	3.42	3.36	3.30	3.24	3.19	3.13	3.08	3.04
170.0	4.14	4.05	3.96	3.88	3.80	3.73	3.66	3.59	3.52	3.45	3.39	3.33	3.28	3.22	3.17	3.12	3.07	3.02	2.97	2.93
180.0	3.93	3.85	3.77	3.70	3.63	3.56	3.49	3.43	3.37	3.31	3.25	3.20	3.15	3.10	3.05	3.00	2.96	2.91	2.87	2.83
190.0	3.74	3.67	3.60	3.53	3.47	3.40	3.34	3.29	3.23	3.18	3.13	3.08	3.03	2.98	2.94	2.90	2.85	2.81	2.78	2.74

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

URANIUM 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
TRACE	0.81	0.96	1.08	1.19	1.27	1.33	1.38	1.41	1.42	1.43	1.42	1.41	1.40	1.38	1.36	1.33	1.30	1.28	1.25	1.22
10.0	1.02	1.12	1.20	1.26	1.30	1.33	1.35	1.35	1.35	1.34	1.33	1.31	1.30	1.27	1.25	1.23	1.20	1.18	1.15	1.13
20.0	1.13	1.19	1.23	1.26	1.27	1.28	1.28	1.28	1.27	1.26	1.24	1.22	1.20	1.18	1.16	1.14	1.11	1.09	1.07	1.04
30.0	1.17	1.19	1.21	1.22	1.22	1.22	1.21	1.20	1.19	1.17	1.16	1.14	1.12	1.10	1.08	1.06	1.04	1.01	0.99	0.97
40.0	1.16	1.17	1.17	1.17	1.16	1.15	1.14	1.13	1.11	1.10	1.08	1.06	1.04	1.02	1.00	0.99	0.97	0.95	0.93	0.91
50.0	1.12	1.12	1.12	1.11	1.10	1.09	1.07	1.06	1.04	1.03	1.01	0.99	0.98	0.96	0.94	0.92	0.90	0.89	0.87	0.85
60.0	1.07	1.07	1.06	1.05	1.04	1.02	1.01	0.99	0.98	0.96	0.95	0.93	0.91	0.90	0.88	0.87	0.85	0.83	0.82	0.80
70.0	1.02	1.01	1.00	0.99	0.98	0.96	0.95	0.94	0.92	0.91	0.89	0.88	0.86	0.85	0.83	0.81	0.80	0.79	0.77	0.76
80.0	0.97	0.96	0.95	0.94	0.92	0.91	0.90	0.88	0.87	0.85	0.84	0.83	0.81	0.80	0.78	0.77	0.76	0.74	0.73	0.72
90.0	0.92	0.91	0.90	0.88	0.87	0.86	0.85	0.83	0.82	0.81	0.79	0.78	0.77	0.75	0.74	0.73	0.72	0.70	0.69	0.68
100.0	0.87	0.86	0.85	0.84	0.83	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
110.0	0.83	0.82	0.81	0.79	0.78	0.77	0.76	0.75	0.74	0.72	0.71	0.70	0.69	0.68	0.67	0.66	0.65	0.63	0.62	0.61
120.0	0.79	0.78	0.77	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	0.61	0.60	0.59	0.58
130.0	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	0.62	0.61	0.60	0.59	0.58	0.57	0.56
140.0	0.71	0.70	0.69	0.68	0.67	0.66	0.65	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
150.0	0.68	0.67	0.66	0.65	0.64	0.63	0.63	0.62	0.61	0.60	0.59	0.58	0.57	0.56	0.55	0.55	0.54	0.53	0.52	0.51
160.0	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	0.52	0.52	0.51	0.50	0.49
170.0	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	0.50	0.49	0.49	0.48	0.47
180.0	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	0.48	0.47	0.46	0.45
190.0	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	0.47	0.46	0.46	0.45	0.44	0.44

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - N - 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

URANIUM 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
TRACE	0.50	0.58	0.66	0.72	0.78	0.82	0.84	0.86	0.87	0.88	0.88	0.87	0.86	0.85	0.84	0.83	0.81	0.80	0.78	0.77
10.0	0.61	0.67	0.71	0.75	0.77	0.79	0.80	0.81	0.81	0.81	0.80	0.79	0.78	0.77	0.76	0.74	0.73	0.72	0.70	0.69
20.0	0.66	0.69	0.71	0.73	0.74	0.75	0.75	0.75	0.74	0.74	0.73	0.72	0.71	0.70	0.69	0.67	0.66	0.65	0.64	0.63
30.0	0.66	0.68	0.69	0.69	0.70	0.70	0.69	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
40.0	0.64	0.65	0.65	0.65	0.65	0.64	0.64	0.63	0.62	0.62	0.61	0.60	0.59	0.58	0.57	0.56	0.55	0.54	0.53	0.52
50.0	0.61	0.61	0.61	0.60	0.60	0.59	0.59	0.58	0.57	0.56	0.56	0.55	0.54	0.53	0.52	0.51	0.51	0.50	0.49	0.48
60.0	0.57	0.57	0.56	0.56	0.55	0.55	0.54	0.53	0.53	0.52	0.51	0.50	0.50	0.49	0.48	0.47	0.47	0.46	0.45	0.44
70.0	0.53	0.53	0.52	0.52	0.51	0.51	0.50	0.49	0.49	0.48	0.47	0.47	0.46	0.45	0.44	0.44	0.43	0.42	0.42	0.41
80.0	0.49	0.49	0.48	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
90.0	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	0.38	0.38	0.37	0.37	0.36	0.36
100.0	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	0.33
110.0	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	0.34	0.33	0.33	0.32	0.32	0.31
120.0	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	0.32	0.32	0.31	0.31	0.30	0.30	0.30
130.0	0.35	0.35	0.34	0.34	0.33	0.33	0.33	0.32	0.32	0.32	0.31	0.31	0.30	0.30	0.30	0.29	0.29	0.29	0.28	0.28
140.0	0.33	0.33	0.32	0.32	0.31	0.31	0.31	0.30	0.30	0.30	0.29	0.29	0.29	0.28	0.28	0.28	0.27	0.27	0.27	0.26
150.0	0.31	0.31	0.30	0.30	0.30	0.29	0.29	0.29	0.28	0.28	0.28	0.27	0.27	0.27	0.26	0.26	0.26	0.26	0.25	0.25
160.0	0.29	0.29	0.29	0.28	0.28	0.28	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
170.0	0.28	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	0.24	0.23	0.23	0.23	0.23
180.0	0.26	0.26	0.26	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	0.22	0.22
190.0	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	0.22	0.22	0.21	0.21	0.21	0.21	0.21

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

URANIUM CONC-G/L	PLUTONIUM CONCENTRATION - 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
TRACE	10.26	10.97	11.46	11.75	11.86	11.82	11.68	11.46	11.17	10.85	10.51	10.16	9.80	9.45	9.10	8.76	8.44	8.12	7.82	7.54
10.0	11.00	11.26	11.35	11.32	11.19	10.99	10.74	10.45	10.14	9.81	9.49	9.16	8.84	8.52	8.22	7.92	7.64	7.37	7.11	6.86
20.0	10.90	10.88	10.76	10.58	10.34	10.08	9.79	9.50	9.19	8.89	8.59	8.30	8.01	7.74	7.47	7.21	6.97	6.73	6.51	6.29
30.0	10.37	10.20	9.98	9.74	9.48	9.20	8.92	8.64	8.36	8.09	7.82	7.56	7.31	7.06	6.83	6.61	6.39	6.19	5.99	5.81
40.0	9.66	9.43	9.19	8.93	8.67	8.41	8.14	7.89	7.63	7.39	7.15	6.92	6.70	6.48	6.28	6.08	5.90	5.72	5.55	5.39
50.0	8.92	8.68	8.44	8.19	7.94	7.70	7.46	7.23	7.00	6.78	6.57	6.37	6.17	5.98	5.80	5.63	5.47	5.31	5.16	5.02
60.0	8.22	7.98	7.75	7.52	7.30	7.07	6.86	6.65	6.45	6.25	6.07	5.89	5.71	5.55	5.39	5.24	5.10	4.96	4.82	4.70
70.0	7.57	7.35	7.14	6.93	6.72	6.52	6.33	6.15	5.97	5.79	5.63	5.47	5.32	5.17	5.03	4.90	4.77	4.65	4.53	4.42
80.0	6.99	6.79	6.59	6.40	6.22	6.04	5.87	5.70	5.54	5.39	5.24	5.10	4.97	4.84	4.71	4.59	4.48	4.37	4.27	4.17
90.0	6.47	6.29	6.11	5.94	5.78	5.62	5.46	5.31	5.17	5.04	4.90	4.78	4.66	4.54	4.43	4.33	4.23	4.13	4.04	3.95
100.0	6.01	5.84	5.69	5.53	5.38	5.24	5.10	4.97	4.84	4.72	4.61	4.49	4.39	4.28	4.19	4.09	4.00	3.91	3.83	3.75
110.0	5.60	5.45	5.31	5.17	5.03	4.91	4.78	4.67	4.55	4.44	4.34	4.24	4.14	4.05	3.96	3.88	3.80	3.72	3.65	3.58
120.0	5.23	5.10	4.97	4.85	4.73	4.61	4.50	4.40	4.29	4.20	4.10	4.01	3.93	3.85	3.77	3.69	3.62	3.55	3.48	3.42
130.0	4.91	4.79	4.67	4.56	4.45	4.35	4.25	4.16	4.06	3.98	3.89	3.81	3.74	3.66	3.59	3.52	3.46	3.40	3.34	3.28
140.0	4.61	4.51	4.40	4.30	4.21	4.11	4.03	3.94	3.86	3.78	3.71	3.63	3.56	3.50	3.43	3.37	3.31	3.26	3.20	3.15
150.0	4.35	4.26	4.16	4.07	3.99	3.90	3.82	3.75	3.67	3.60	3.54	3.47	3.41	3.35	3.29	3.23	3.18	3.13	3.08	3.03
160.0	4.12	4.03	3.95	3.87	3.79	3.72	3.64	3.58	3.51	3.45	3.38	3.33	3.27	3.21	3.16	3.11	3.06	3.01	2.97	2.92
170.0	3.91	3.83	3.76	3.68	3.61	3.55	3.48	3.42	3.36	3.30	3.25	3.19	3.14	3.09	3.04	3.00	2.95	2.91	2.87	2.83
180.0	3.72	3.65	3.58	3.52	3.46	3.39	3.34	3.28	3.22	3.17	3.12	3.07	3.03	2.98	2.94	2.89	2.85	2.81	2.77	2.74
190.0	3.56	3.49	3.43	3.37	3.31	3.26	3.20	3.15	3.10	3.05	3.01	2.96	2.92	2.88	2.84	2.80	2.76	2.72	2.69	2.65

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

URANIUM 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
TRACE	1.72	1.79	1.84	1.86	1.86	1.84	1.82	1.79	1.75	1.71	1.67	1.62	1.58	1.53	1.49	1.45	1.40	1.36	1.32	1.29
10.0	1.69	1.71	1.72	1.71	1.70	1.67	1.64	1.61	1.57	1.54	1.50	1.46	1.42	1.38	1.35	1.31	1.27	1.24	1.21	1.17
20.0	1.60	1.60	1.59	1.57	1.55	1.52	1.49	1.46	1.43	1.39	1.36	1.33	1.29	1.26	1.23	1.20	1.17	1.14	1.11	1.08
30.0	1.49	1.48	1.46	1.44	1.42	1.39	1.36	1.33	1.30	1.27	1.24	1.21	1.18	1.16	1.13	1.10	1.07	1.05	1.02	1.00
40.0	1.39	1.37	1.35	1.33	1.30	1.28	1.25	1.22	1.20	1.17	1.14	1.12	1.09	1.07	1.04	1.02	0.99	0.97	0.95	0.93
50.0	1.29	1.27	1.25	1.22	1.20	1.18	1.15	1.13	1.11	1.08	1.06	1.04	1.01	0.99	0.97	0.95	0.93	0.90	0.88	0.86
60.0	1.20	1.18	1.16	1.13	1.11	1.09	1.07	1.05	1.03	1.01	0.98	0.96	0.94	0.92	0.90	0.88	0.86	0.85	0.83	0.81
70.0	1.11	1.09	1.08	1.06	1.04	1.02	1.00	0.98	0.96	0.94	0.92	0.90	0.88	0.86	0.85	0.83	0.81	0.79	0.78	0.76
80.0	1.04	1.02	1.00	0.99	0.97	0.95	0.93	0.91	0.90	0.88	0.86	0.84	0.83	0.81	0.80	0.78	0.76	0.75	0.73	0.72
90.0	0.97	0.96	0.94	0.92	0.91	0.89	0.87	0.86	0.84	0.83	0.81	0.79	0.78	0.76	0.75	0.74	0.72	0.71	0.69	0.68
100.0	0.92	0.90	0.88	0.87	0.85	0.84	0.82	0.81	0.79	0.78	0.76	0.75	0.74	0.72	0.71	0.70	0.68	0.67	0.66	0.64
110.0	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	0.65	0.64	0.62	0.61
120.0	0.81	0.80	0.79	0.77	0.76	0.75	0.74	0.72	0.71	0.70	0.69	0.67	0.66	0.65	0.64	0.63	0.62	0.61	0.59	0.58
130.0	0.77	0.76	0.75	0.73	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	0.56
140.0	0.73	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	0.56	0.55	0.54	0.53
150.0	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	0.55	0.54	0.53	0.52	0.51
160.0	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	0.53	0.52	0.51	0.51	0.50	0.49
170.0	0.63	0.62	0.61	0.60	0.59	0.59	0.58	0.57	0.56	0.55	0.54	0.53	0.53	0.52	0.51	0.50	0.49	0.49	0.48	0.47
180.0	0.60	0.60	0.59	0.58	0.57	0.56	0.55	0.54	0.54	0.53	0.52	0.51	0.50	0.50	0.49	0.48	0.47	0.47	0.46	0.45
190.0	0.58	0.57	0.56	0.55	0.55	0.54	0.53	0.52	0.51	0.51	0.50	0.49	0.48	0.48	0.47	0.46	0.46	0.45	0.44	0.44

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

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

URANIUM 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
TRACE	1.05	1.10	1.12	1.14	1.14	1.13	1.12	1.10	1.08	1.06	1.03	1.01	0.98	0.96	0.93	0.91	0.88	0.86	0.84	0.82
10.0	1.01	1.02	1.03	1.03	1.02	1.01	0.99	0.97	0.95	0.93	0.91	0.89	0.87	0.85	0.83	0.80	0.79	0.77	0.75	0.73
20.0	0.94	0.94	0.93	0.92	0.91	0.89	0.88	0.86	0.84	0.83	0.81	0.79	0.77	0.75	0.74	0.72	0.70	0.69	0.67	0.66
30.0	0.85	0.85	0.84	0.83	0.81	0.80	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
40.0	0.78	0.77	0.76	0.75	0.73	0.72	0.71	0.69	0.68	0.67	0.65	0.64	0.63	0.61	0.60	0.59	0.58	0.57	0.56	0.54
50.0	0.71	0.70	0.69	0.68	0.66	0.65	0.64	0.63	0.62	0.61	0.59	0.58	0.57	0.56	0.55	0.54	0.53	0.52	0.51	0.50
60.0	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	0.50	0.49	0.48	0.47	0.46
70.0	0.59	0.58	0.57	0.56	0.55	0.54	0.53	0.53	0.52	0.51	0.50	0.49	0.48	0.47	0.46	0.46	0.45	0.44	0.43	0.43
80.0	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	0.43	0.42	0.42	0.41	0.40	0.40
90.0	0.50	0.49	0.48	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
100.0	0.46	0.45	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	0.35	0.35
110.0	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	0.34	0.34	0.33	0.33	0.33
120.0	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	0.31
130.0	0.37	0.37	0.36	0.36	0.35	0.35	0.34	0.34	0.33	0.33	0.32	0.32	0.32	0.31	0.31	0.30	0.30	0.30	0.29	0.29
140.0	0.35	0.34	0.34	0.33	0.33	0.33	0.32	0.32	0.31	0.31	0.31	0.30	0.30	0.29	0.29	0.29	0.28	0.28	0.28	0.27
150.0	0.33	0.32	0.32	0.31	0.31	0.31	0.30	0.30	0.30	0.29	0.29	0.29	0.28	0.28	0.28	0.27	0.27	0.27	0.26	0.26
160.0	0.31	0.30	0.30	0.30	0.29	0.29	0.29	0.28	0.28	0.28	0.27	0.27	0.27	0.26	0.26	0.26	0.26	0.25	0.25	0.25
170.0	0.29	0.29	0.28	0.28	0.28	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	0.24
180.0	0.27	0.27	0.27	0.27	0.26	0.26	0.26	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
190.0	0.26	0.26	0.25	0.25	0.25	0.25	0.24	0.24	0.24	0.24	0.23	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.22	0.22

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

URANIUM 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
TRACE	14.43	14.32	14.05	13.67	13.22	12.74	12.23	11.72	11.22	10.74	10.27	9.82	9.40	9.00	8.62	8.26	7.93	7.61	7.31	7.03
10.0	13.22	12.90	12.51	12.09	11.64	11.19	10.75	10.31	9.89	9.48	9.10	8.73	8.38	8.04	7.73	7.43	7.15	6.89	6.64	6.40
20.0	11.90	11.52	11.13	10.73	10.32	9.93	9.54	9.17	8.81	8.47	8.15	7.84	7.54	7.26	7.00	6.75	6.51	6.29	6.08	5.88
30.0	10.67	10.31	9.94	9.58	9.23	8.88	8.55	8.23	7.93	7.64	7.36	7.10	6.85	6.61	6.39	6.18	5.97	5.78	5.60	5.43
40.0	9.59	9.26	8.94	8.62	8.31	8.01	7.73	7.46	7.20	6.95	6.71	6.48	6.27	6.07	5.87	5.69	5.52	5.35	5.19	5.05
50.0	8.67	8.37	8.08	7.81	7.54	7.28	7.04	6.80	6.58	6.36	6.16	5.96	5.78	5.60	5.44	5.28	5.12	4.98	4.84	4.71
60.0	7.87	7.61	7.36	7.12	6.88	6.66	6.45	6.24	6.05	5.86	5.69	5.52	5.36	5.20	5.06	4.92	4.79	4.66	4.54	4.43
70.0	7.19	6.96	6.74	6.53	6.32	6.13	5.94	5.77	5.60	5.43	5.28	5.13	4.99	4.86	4.73	4.61	4.49	4.38	4.27	4.17
80.0	6.60	6.40	6.21	6.02	5.84	5.67	5.51	5.35	5.20	5.06	4.93	4.80	4.67	4.55	4.44	4.33	4.23	4.13	4.04	3.95
90.0	6.09	5.92	5.75	5.58	5.42	5.27	5.13	4.99	4.86	4.74	4.62	4.50	4.39	4.29	4.19	4.10	4.00	3.92	3.83	3.75
100.0	5.65	5.49	5.34	5.20	5.06	4.93	4.80	4.68	4.56	4.45	4.35	4.25	4.15	4.06	3.97	3.88	3.80	3.72	3.65	3.58
110.0	5.26	5.13	4.99	4.86	4.74	4.62	4.51	4.40	4.30	4.20	4.11	4.02	3.93	3.85	3.77	3.69	3.62	3.55	3.48	3.42
120.0	4.92	4.80	4.68	4.57	4.46	4.35	4.25	4.16	4.07	3.98	3.90	3.82	3.74	3.66	3.59	3.53	3.46	3.40	3.34	3.28
130.0	4.62	4.51	4.41	4.31	4.21	4.12	4.03	3.94	3.86	3.78	3.71	3.63	3.57	3.50	3.43	3.37	3.31	3.26	3.20	3.15
140.0	4.36	4.26	4.17	4.08	3.99	3.91	3.83	3.75	3.68	3.61	3.54	3.47	3.41	3.35	3.29	3.24	3.18	3.13	3.08	3.03
150.0	4.12	4.03	3.95	3.87	3.79	3.72	3.65	3.58	3.51	3.45	3.39	3.33	3.27	3.22	3.16	3.11	3.06	3.02	2.97	2.93
160.0	3.91	3.83	3.76	3.68	3.61	3.55	3.48	3.42	3.36	3.30	3.25	3.20	3.14	3.09	3.05	3.00	2.96	2.91	2.87	2.83
170.0	3.72	3.65	3.58	3.52	3.46	3.40	3.34	3.28	3.23	3.17	3.12	3.08	3.03	2.98	2.94	2.90	2.86	2.82	2.78	2.74
180.0	3.56	3.49	3.43	3.37	3.31	3.26	3.20	3.15	3.10	3.06	3.01	2.97	2.92	2.88	2.84	2.80	2.76	2.73	2.69	2.66
190.0	3.40	3.35	3.29	3.24	3.18	3.13	3.08	3.04	2.99	2.95	2.91	2.87	2.83	2.79	2.75	2.71	2.68	2.64	2.61	2.58

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

URANIUM CONC-G/L	PLUTONIUM CONCENTRATION - 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
TRACE	4.57	4.05	3.65	3.32	3.06	2.83	2.64	2.47	2.32	2.19	2.07	1.96	1.86	1.77	1.69	1.62	1.55	1.48	1.42	1.37
10.0	3.19	2.96	2.76	2.58	2.42	2.29	2.16	2.05	1.95	1.85	1.77	1.69	1.62	1.55	1.49	1.43	1.37	1.32	1.27	1.23
20.0	2.51	2.37	2.24	2.13	2.02	1.93	1.84	1.76	1.68	1.61	1.55	1.49	1.43	1.38	1.33	1.28	1.23	1.19	1.15	1.11
30.0	2.09	1.99	1.90	1.82	1.74	1.67	1.61	1.54	1.48	1.43	1.38	1.33	1.28	1.24	1.20	1.16	1.12	1.09	1.05	1.02
40.0	1.80	1.72	1.66	1.59	1.53	1.48	1.43	1.38	1.33	1.28	1.24	1.20	1.16	1.13	1.09	1.06	1.03	1.00	0.97	0.94
50.0	1.58	1.52	1.47	1.42	1.37	1.33	1.28	1.24	1.20	1.17	1.13	1.10	1.06	1.03	1.00	0.98	0.95	0.92	0.90	0.87
60.0	1.41	1.36	1.32	1.28	1.24	1.20	1.17	1.13	1.10	1.07	1.04	1.01	0.98	0.95	0.93	0.90	0.88	0.86	0.83	0.81
70.0	1.27	1.24	1.20	1.16	1.13	1.10	1.07	1.04	1.01	0.98	0.96	0.93	0.91	0.89	0.86	0.84	0.82	0.80	0.78	0.76
80.0	1.16	1.13	1.10	1.07	1.04	1.01	0.99	0.96	0.94	0.91	0.89	0.87	0.85	0.83	0.81	0.79	0.77	0.75	0.73	0.71
90.0	1.07	1.04	1.01	0.99	0.96	0.94	0.92	0.89	0.87	0.85	0.83	0.81	0.79	0.77	0.76	0.74	0.72	0.71	0.69	0.67
100.0	0.99	0.96	0.94	0.92	0.90	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
110.0	0.92	0.90	0.88	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	0.64	0.63	0.62	0.60
120.0	0.86	0.84	0.82	0.80	0.79	0.77	0.75	0.74	0.72	0.71	0.69	0.68	0.66	0.65	0.64	0.62	0.61	0.60	0.59	0.57
130.0	0.81	0.79	0.77	0.76	0.74	0.73	0.71	0.70	0.68	0.67	0.66	0.64	0.63	0.62	0.60	0.59	0.58	0.57	0.56	0.55
140.0	0.76	0.74	0.73	0.72	0.70	0.69	0.67	0.66	0.65	0.64	0.62	0.61	0.60	0.59	0.58	0.56	0.55	0.54	0.53	0.52
150.0	0.72	0.70	0.69	0.68	0.66	0.65	0.64	0.63	0.62	0.60	0.59	0.58	0.57	0.56	0.55	0.54	0.53	0.52	0.51	0.50
160.0	0.68	0.67	0.66	0.64	0.63	0.62	0.61	0.60	0.59	0.58	0.57	0.55	0.54	0.53	0.52	0.52	0.51	0.50	0.49	0.48
170.0	0.65	0.64	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	0.48	0.47	0.46
180.0	0.62	0.61	0.59	0.58	0.57	0.56	0.55	0.54	0.54	0.53	0.52	0.51	0.50	0.49	0.48	0.47	0.47	0.46	0.45	0.44
190.0	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	0.47	0.46	0.45	0.45	0.44	0.43	0.42

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

URANIUM 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
TRACE	2.85	2.53	2.28	2.08	1.92	1.78	1.67	1.56	1.47	1.39	1.32	1.26	1.20	1.15	1.10	1.05	1.01	0.97	0.94	0.90
10.0	1.95	1.81	1.69	1.59	1.50	1.42	1.34	1.28	1.22	1.16	1.11	1.07	1.02	0.98	0.95	0.91	0.88	0.85	0.83	0.80
20.0	1.51	1.43	1.36	1.29	1.23	1.17	1.12	1.08	1.04	1.00	0.96	0.92	0.89	0.86	0.83	0.81	0.78	0.76	0.74	0.72
30.0	1.24	1.18	1.13	1.09	1.04	1.00	0.97	0.93	0.90	0.87	0.84	0.81	0.79	0.77	0.74	0.72	0.70	0.68	0.66	0.65
40.0	1.05	1.01	0.97	0.94	0.90	0.87	0.85	0.82	0.79	0.77	0.75	0.73	0.71	0.69	0.67	0.65	0.63	0.62	0.60	0.59
50.0	0.91	0.88	0.85	0.82	0.80	0.77	0.75	0.73	0.71	0.69	0.67	0.65	0.64	0.62	0.61	0.59	0.58	0.56	0.55	0.54
60.0	0.80	0.77	0.75	0.73	0.71	0.69	0.67	0.66	0.64	0.62	0.61	0.59	0.58	0.57	0.55	0.54	0.53	0.52	0.51	0.50
70.0	0.71	0.69	0.67	0.66	0.64	0.63	0.61	0.60	0.58	0.57	0.56	0.54	0.53	0.52	0.51	0.50	0.49	0.48	0.47	0.46
80.0	0.64	0.62	0.61	0.60	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	0.45	0.44	0.43
90.0	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	0.45	0.44	0.43	0.42	0.42	0.41	0.40
100.0	0.53	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
110.0	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	0.36	0.35
120.0	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	0.36	0.35	0.35	0.34	0.34	0.33
130.0	0.42	0.41	0.41	0.40	0.39	0.39	0.38	0.38	0.37	0.37	0.36	0.35	0.35	0.34	0.34	0.33	0.33	0.33	0.32	0.32
140.0	0.39	0.39	0.38	0.38	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	0.30
150.0	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	0.30	0.30	0.29	0.29	0.29
160.0	0.35	0.34	0.34	0.33	0.33	0.32	0.32	0.32	0.31	0.31	0.30	0.30	0.30	0.29	0.29	0.29	0.28	0.28	0.28	0.27
170.0	0.33	0.32	0.32	0.31	0.31	0.31	0.30	0.30	0.30	0.29	0.29	0.29	0.28	0.28	0.28	0.27	0.27	0.27	0.26	0.26
180.0	0.31	0.31	0.30	0.30	0.30	0.29	0.29	0.29	0.28	0.28	0.28	0.27	0.27	0.27	0.26	0.26	0.26	0.26	0.25	0.25
190.0	0.29	0.29	0.29	0.28	0.28	0.28	0.27	0.27	0.27	0.27	0.26	0.26	0.26	0.25	0.25	0.25	0.25	0.24	0.24	0.24

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*10C

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

URANIUM 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
TRACE	19.92	17.68	15.94	14.52	13.34	12.34	11.48	10.73	10.07	9.48	8.96	8.49	8.06	7.68	7.32	7.00	6.71	6.43	6.18	5.95
10.0	14.55	13.42	12.46	11.62	10.88	10.22	9.64	9.12	8.64	8.21	7.82	7.47	7.14	6.84	6.56	6.30	6.07	5.85	5.64	5.45
20.0	11.72	11.00	10.35	9.78	9.25	8.78	8.35	7.96	7.60	7.27	6.96	6.68	6.42	6.18	5.95	5.75	5.55	5.37	5.20	5.04
30.0	9.89	9.38	8.91	8.48	8.08	7.72	7.39	7.08	6.80	6.53	6.29	6.06	5.85	5.65	5.46	5.29	5.12	4.97	4.82	4.69
40.0	8.59	8.20	7.84	7.50	7.19	6.91	6.64	6.39	6.16	5.94	5.74	5.55	5.38	5.21	5.05	4.90	4.76	4.63	4.51	4.39
50.0	7.61	7.30	7.01	6.74	6.49	6.26	6.04	5.83	5.64	5.46	5.29	5.13	4.98	4.84	4.71	4.58	4.46	4.35	4.24	4.14
60.0	6.84	6.59	6.35	6.13	5.92	5.73	5.55	5.37	5.21	5.06	4.91	4.78	4.65	4.53	4.41	4.30	4.20	4.10	4.00	3.91
70.0	6.22	6.01	5.81	5.63	5.45	5.29	5.13	4.99	4.85	4.72	4.59	4.47	4.36	4.26	4.15	4.06	3.97	3.88	3.80	3.72
80.0	5.71	5.53	5.36	5.21	5.06	4.92	4.78	4.66	4.54	4.42	4.31	4.21	4.11	4.02	3.93	3.85	3.77	3.69	3.61	3.54
90.0	5.28	5.13	4.98	4.85	4.72	4.60	4.48	4.37	4.27	4.17	4.07	3.98	3.90	3.81	3.74	3.66	3.59	3.52	3.45	3.39
100.0	4.91	4.78	4.66	4.54	4.43	4.32	4.22	4.13	4.03	3.95	3.86	3.78	3.71	3.63	3.56	3.49	3.43	3.37	3.31	3.25
110.0	4.60	4.48	4.38	4.27	4.18	4.08	3.99	3.91	3.83	3.75	3.68	3.60	3.54	3.47	3.41	3.35	3.29	3.23	3.18	3.12
120.0	4.33	4.23	4.13	4.04	3.96	3.87	3.79	3.72	3.65	3.58	3.51	3.44	3.38	3.32	3.27	3.21	3.16	3.11	3.06	3.01
130.0	4.09	4.00	3.92	3.84	3.76	3.69	3.62	3.55	3.48	3.42	3.36	3.30	3.25	3.19	3.14	3.09	3.04	2.99	2.95	2.90
140.0	3.88	3.80	3.73	3.65	3.59	3.52	3.46	3.40	3.34	3.28	3.23	3.17	3.12	3.07	3.03	2.98	2.93	2.89	2.85	2.81
150.0	3.69	3.62	3.56	3.49	3.43	3.37	3.31	3.26	3.21	3.15	3.10	3.06	3.01	2.96	2.92	2.88	2.84	2.80	2.76	2.72
160.0	3.53	3.47	3.41	3.35	3.29	3.24	3.19	3.14	3.09	3.04	2.99	2.95	2.91	2.86	2.82	2.78	2.75	2.71	2.67	2.64
170.0	3.38	3.32	3.27	3.22	3.17	3.12	3.07	3.02	2.98	2.93	2.89	2.85	2.81	2.77	2.73	2.70	2.66	2.63	2.59	2.56
180.0	3.25	3.19	3.15	3.10	3.05	3.01	2.96	2.92	2.88	2.84	2.80	2.76	2.72	2.69	2.65	2.62	2.58	2.55	2.52	2.49
190.0	3.13	3.08	3.03	2.99	2.95	2.90	2.86	2.82	2.79	2.75	2.71	2.68	2.64	2.61	2.58	2.54	2.51	2.48	2.45	2.42

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 2.00
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-N- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	12.86	8.48	6.44	5.22	4.41	3.83	3.38	3.03	2.74	2.50	2.30	2.13	1.98	1.85	1.74	1.63	1.54	1.46	1.38	1.31
10.0	5.47	4.60	3.97	3.50	3.13	2.83	2.59	2.38	2.20	2.05	1.91	1.79	1.69	1.59	1.50	1.43	1.35	1.29	1.23	1.17
20.0	3.61	3.23	2.92	2.66	2.45	2.26	2.10	1.96	1.84	1.73	1.63	1.55	1.47	1.39	1.33	1.26	1.21	1.15	1.11	1.06
30.0	2.73	2.51	2.32	2.16	2.02	1.89	1.78	1.68	1.59	1.50	1.43	1.36	1.30	1.24	1.19	1.14	1.09	1.05	1.01	0.97
40.0	2.21	2.06	1.93	1.82	1.72	1.62	1.54	1.46	1.39	1.33	1.27	1.22	1.17	1.12	1.07	1.03	0.99	0.96	0.92	0.89
50.0	1.86	1.75	1.66	1.57	1.50	1.43	1.36	1.30	1.25	1.19	1.14	1.10	1.06	1.02	0.98	0.94	0.91	0.88	0.85	0.82
60.0	1.61	1.53	1.46	1.39	1.33	1.27	1.22	1.17	1.12	1.08	1.04	1.00	0.97	0.93	0.90	0.87	0.84	0.82	0.79	0.76
70.0	1.42	1.35	1.30	1.24	1.19	1.15	1.11	1.06	1.03	0.99	0.96	0.92	0.89	0.86	0.83	0.81	0.78	0.76	0.74	0.71
80.0	1.27	1.22	1.17	1.13	1.09	1.05	1.01	0.98	0.94	0.91	0.88	0.85	0.83	0.80	0.78	0.75	0.73	0.71	0.69	0.67
90.0	1.15	1.11	1.07	1.03	1.00	0.96	0.93	0.90	0.87	0.85	0.82	0.79	0.77	0.75	0.73	0.71	0.69	0.67	0.65	0.63
100.0	1.05	1.01	0.98	0.95	0.92	0.89	0.86	0.84	0.81	0.79	0.77	0.74	0.72	0.70	0.68	0.66	0.65	0.63	0.61	0.60
110.0	0.97	0.94	0.91	0.88	0.85	0.83	0.80	0.78	0.76	0.74	0.72	0.70	0.68	0.66	0.64	0.63	0.61	0.59	0.58	0.56
120.0	0.89	0.87	0.84	0.82	0.80	0.77	0.75	0.73	0.71	0.69	0.68	0.66	0.64	0.62	0.61	0.59	0.58	0.56	0.55	0.54
130.0	0.83	0.81	0.79	0.77	0.75	0.73	0.71	0.69	0.67	0.65	0.64	0.62	0.61	0.59	0.58	0.56	0.55	0.54	0.52	0.51
140.0	0.78	0.76	0.74	0.72	0.70	0.68	0.67	0.65	0.63	0.62	0.60	0.59	0.58	0.56	0.55	0.54	0.52	0.51	0.50	0.49
150.0	0.73	0.72	0.70	0.68	0.66	0.65	0.63	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
160.0	0.69	0.68	0.66	0.64	0.63	0.61	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
170.0	0.66	0.64	0.63	0.61	0.60	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	0.44	0.43
180.0	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	0.47	0.46	0.45	0.44	0.43	0.42	0.41
190.0	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	0.44	0.43	0.42	0.41	0.40	0.39

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 2.00
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

URANIUM 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
TRACE	8.63	5.71	4.36	3.55	3.02	2.63	2.33	2.10	1.91	1.76	1.63	1.51	1.42	1.33	1.26	1.19	1.13	1.07	1.03	0.98
10.0	3.64	3.08	2.67	2.37	2.13	1.94	1.78	1.64	1.53	1.43	1.34	1.27	1.20	1.14	1.08	1.03	0.99	0.95	0.91	0.87
20.0	2.39	2.15	1.95	1.79	1.66	1.54	1.44	1.35	1.27	1.21	1.14	1.09	1.04	0.99	0.95	0.91	0.88	0.85	0.82	0.79
30.0	1.80	1.66	1.55	1.45	1.36	1.28	1.21	1.15	1.09	1.04	1.00	0.96	0.92	0.88	0.85	0.82	0.79	0.77	0.74	0.72
40.0	1.45	1.36	1.28	1.21	1.15	1.10	1.05	1.00	0.96	0.92	0.89	0.85	0.82	0.79	0.77	0.74	0.72	0.70	0.68	0.66
50.0	1.21	1.15	1.10	1.05	1.00	0.96	0.92	0.89	0.85	0.82	0.80	0.77	0.75	0.72	0.70	0.68	0.66	0.64	0.63	0.61
60.0	1.05	1.00	0.96	0.92	0.89	0.85	0.82	0.80	0.77	0.75	0.72	0.70	0.68	0.66	0.64	0.63	0.61	0.60	0.58	0.57
70.0	0.92	0.89	0.85	0.82	0.80	0.77	0.75	0.72	0.70	0.68	0.66	0.64	0.63	0.61	0.60	0.58	0.57	0.55	0.54	0.53
80.0	0.82	0.79	0.77	0.74	0.72	0.70	0.68	0.66	0.64	0.63	0.61	0.60	0.58	0.57	0.56	0.54	0.53	0.52	0.51	0.50
90.0	0.74	0.72	0.70	0.68	0.66	0.64	0.63	0.61	0.60	0.58	0.57	0.56	0.54	0.53	0.52	0.51	0.50	0.49	0.48	0.47
100.0	0.68	0.66	0.64	0.63	0.61	0.60	0.58	0.57	0.56	0.54	0.53	0.52	0.51	0.50	0.49	0.48	0.47	0.46	0.45	0.45
110.0	0.62	0.61	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	0.45	0.44	0.43	0.42
120.0	0.58	0.56	0.55	0.54	0.53	0.52	0.51	0.50	0.49	0.48	0.47	0.46	0.45	0.45	0.44	0.43	0.42	0.42	0.41	0.40
130.0	0.54	0.53	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	0.39
140.0	0.50	0.50	0.49	0.48	0.47	0.46	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
150.0	0.48	0.47	0.46	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
160.0	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	0.35	0.35	0.35	0.34
170.0	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	0.35	0.35	0.34	0.34	0.33	0.33
180.0	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	0.33	0.33	0.33	0.32	0.32
190.0	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	0.33	0.32	0.32	0.31	0.31	0.31

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*10C

NITRIC ACID CONC. - M - 2.00
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

URANIUM 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
TRACE	22.42	16.70	13.77	11.91	10.59	9.59	8.80	8.15	7.61	7.16	6.76	6.41	6.10	5.83	5.58	5.35	5.15	4.96	4.79	4.63
10.0	12.48	11.04	9.97	9.12	8.43	7.86	7.38	6.96	6.59	6.27	5.98	5.73	5.49	5.28	5.08	4.91	4.74	4.59	4.45	4.31
20.0	9.44	8.71	8.11	7.60	7.16	6.78	6.44	6.14	5.87	5.63	5.41	5.21	5.02	4.85	4.69	4.54	4.41	4.28	4.16	4.04
30.0	7.81	7.35	6.96	6.60	6.29	6.01	5.76	5.53	5.32	5.13	4.96	4.79	4.64	4.50	4.37	4.24	4.13	4.02	3.91	3.82
40.0	6.77	6.44	6.15	5.89	5.66	5.44	5.24	5.06	4.89	4.74	4.59	4.46	4.33	4.21	4.10	3.99	3.89	3.79	3.70	3.62
50.0	6.02	5.78	5.56	5.35	5.17	4.99	4.83	4.68	4.54	4.41	4.29	4.17	4.07	3.96	3.87	3.77	3.68	3.60	3.52	3.44
60.0	5.46	5.27	5.09	4.92	4.77	4.63	4.49	4.37	4.25	4.14	4.03	3.94	3.84	3.75	3.66	3.58	3.50	3.43	3.36	3.29
70.0	5.01	4.86	4.71	4.57	4.45	4.33	4.21	4.10	4.00	3.91	3.82	3.73	3.64	3.56	3.49	3.42	3.35	3.28	3.21	3.15
80.0	4.65	4.52	4.40	4.28	4.17	4.07	3.97	3.88	3.79	3.70	3.62	3.55	3.47	3.40	3.33	3.27	3.20	3.14	3.08	3.03
90.0	4.35	4.24	4.13	4.03	3.94	3.85	3.76	3.68	3.60	3.53	3.45	3.39	3.32	3.25	3.19	3.13	3.07	3.02	2.96	2.91
100.0	4.10	4.00	3.91	3.82	3.74	3.66	3.58	3.51	3.44	3.37	3.30	3.24	3.18	3.12	3.07	3.01	2.96	2.91	2.86	2.81
110.0	3.88	3.79	3.71	3.63	3.56	3.49	3.42	3.35	3.29	3.23	3.17	3.11	3.06	3.00	2.95	2.90	2.85	2.80	2.76	2.71
120.0	3.68	3.61	3.54	3.47	3.40	3.34	3.28	3.22	3.16	3.10	3.05	3.00	2.94	2.90	2.85	2.80	2.75	2.71	2.67	2.63
130.0	3.52	3.45	3.38	3.32	3.26	3.20	3.15	3.09	3.04	2.99	2.94	2.89	2.84	2.80	2.75	2.71	2.67	2.62	2.58	2.54
140.0	3.36	3.30	3.25	3.19	3.13	3.08	3.03	2.98	2.93	2.88	2.84	2.79	2.75	2.70	2.66	2.62	2.58	2.54	2.51	2.47
150.0	3.23	3.17	3.12	3.07	3.02	2.97	2.92	2.87	2.83	2.79	2.74	2.70	2.66	2.62	2.58	2.54	2.50	2.47	2.43	2.40
160.0	3.11	3.06	3.01	2.96	2.91	2.87	2.82	2.78	2.74	2.70	2.66	2.62	2.58	2.54	2.50	2.47	2.43	2.40	2.36	2.33
170.0	3.00	2.95	2.90	2.86	2.82	2.77	2.73	2.69	2.65	2.61	2.58	2.54	2.50	2.47	2.43	2.40	2.37	2.33	2.30	2.27
180.0	2.89	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	2.33	2.30	2.27	2.24	2.21
190.0	2.80	2.76	2.72	2.68	2.64	2.61	2.57	2.53	2.50	2.47	2.43	2.40	2.37	2.33	2.30	2.27	2.24	2.21	2.18	2.15

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

URANIUM 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
TRACE	22.04	10.76	7.32	5.59	4.53	3.82	3.30	2.90	2.59	2.33	2.12	1.94	1.79	1.66	1.55	1.45	1.36	1.27	1.20	1.14
10.0	6.56	5.17	4.27	3.64	3.17	2.81	2.52	2.28	2.08	1.91	1.77	1.64	1.53	1.44	1.35	1.27	1.20	1.13	1.08	1.02
20.0	4.03	3.48	3.06	2.72	2.45	2.23	2.05	1.89	1.75	1.63	1.52	1.43	1.34	1.26	1.20	1.13	1.08	1.02	0.97	0.93
30.0	2.94	2.64	2.39	2.18	2.01	1.86	1.72	1.61	1.51	1.42	1.33	1.26	1.19	1.13	1.07	1.02	0.98	0.93	0.89	0.85
40.0	2.33	2.14	1.97	1.83	1.70	1.59	1.49	1.40	1.33	1.25	1.19	1.13	1.07	1.02	0.98	0.93	0.89	0.85	0.82	0.79
50.0	1.93	1.80	1.68	1.57	1.48	1.39	1.32	1.25	1.18	1.12	1.07	1.02	0.98	0.93	0.89	0.86	0.82	0.79	0.76	0.73
60.0	1.65	1.55	1.46	1.38	1.31	1.24	1.18	1.12	1.07	1.02	0.98	0.93	0.89	0.86	0.82	0.79	0.76	0.73	0.71	0.68
70.0	1.45	1.37	1.30	1.23	1.17	1.12	1.07	1.02	0.97	0.93	0.90	0.86	0.83	0.79	0.76	0.74	0.71	0.68	0.66	0.64
80.0	1.29	1.22	1.17	1.11	1.06	1.02	0.97	0.93	0.90	0.86	0.83	0.80	0.77	0.74	0.71	0.69	0.66	0.64	0.62	0.60
90.0	1.16	1.11	1.06	1.01	0.97	0.93	0.90	0.86	0.83	0.80	0.77	0.74	0.72	0.69	0.67	0.65	0.62	0.60	0.58	0.57
100.0	1.06	1.01	0.97	0.93	0.90	0.86	0.83	0.80	0.77	0.74	0.72	0.69	0.67	0.65	0.63	0.61	0.59	0.57	0.55	0.54
110.0	0.97	0.93	0.90	0.86	0.83	0.80	0.77	0.75	0.72	0.70	0.67	0.65	0.63	0.61	0.59	0.57	0.56	0.54	0.52	0.51
120.0	0.90	0.86	0.83	0.80	0.78	0.75	0.72	0.70	0.68	0.66	0.64	0.62	0.60	0.58	0.56	0.54	0.53	0.51	0.50	0.48
130.0	0.83	0.80	0.78	0.75	0.73	0.70	0.68	0.66	0.64	0.62	0.60	0.58	0.56	0.55	0.53	0.52	0.50	0.49	0.47	0.46
140.0	0.78	0.75	0.73	0.71	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	0.46	0.45	0.44
150.0	0.73	0.71	0.69	0.67	0.65	0.63	0.61	0.59	0.57	0.56	0.54	0.53	0.51	0.50	0.48	0.47	0.46	0.44	0.43	0.42
160.0	0.69	0.67	0.65	0.63	0.61	0.59	0.58	0.56	0.54	0.53	0.51	0.50	0.49	0.47	0.46	0.45	0.44	0.43	0.41	0.40
170.0	0.65	0.63	0.61	0.60	0.58	0.56	0.55	0.53	0.52	0.50	0.49	0.48	0.47	0.45	0.44	0.43	0.42	0.41	0.40	0.39
180.0	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	0.43	0.42	0.41	0.40	0.39	0.38	0.37
190.0	0.59	0.57	0.56	0.54	0.53	0.51	0.50	0.49	0.47	0.46	0.45	0.44	0.43	0.42	0.41	0.40	0.39	0.38	0.37	0.36

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 - 40.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	16.75	8.23	5.64	4.34	3.54	3.01	2.61	2.32	2.08	1.89	1.73	1.60	1.49	1.39	1.31	1.23	1.16	1.10	1.05	1.00
10.0	5.02	3.98	3.31	2.84	2.50	2.23	2.01	1.84	1.69	1.57	1.46	1.37	1.29	1.21	1.15	1.09	1.04	0.99	0.95	0.91
20.0	3.10	2.70	2.39	2.14	1.95	1.78	1.65	1.53	1.43	1.34	1.27	1.20	1.14	1.08	1.03	0.98	0.94	0.90	0.87	0.84
30.0	2.28	2.06	1.88	1.73	1.60	1.50	1.40	1.32	1.24	1.18	1.12	1.07	1.02	0.98	0.93	0.90	0.86	0.83	0.80	0.78
40.0	1.82	1.68	1.56	1.46	1.37	1.29	1.22	1.16	1.10	1.05	1.01	0.97	0.93	0.89	0.86	0.83	0.80	0.77	0.75	0.72
50.0	1.52	1.43	1.34	1.27	1.20	1.14	1.09	1.04	1.00	0.96	0.92	0.88	0.85	0.82	0.79	0.77	0.74	0.72	0.70	0.68
60.0	1.31	1.24	1.18	1.12	1.07	1.03	0.98	0.94	0.91	0.88	0.84	0.82	0.79	0.76	0.74	0.72	0.70	0.68	0.66	0.64
70.0	1.16	1.11	1.06	1.01	0.97	0.93	0.90	0.87	0.84	0.81	0.78	0.76	0.74	0.72	0.70	0.68	0.66	0.64	0.63	0.61
80.0	1.04	1.00	0.96	0.92	0.89	0.86	0.83	0.80	0.78	0.76	0.73	0.71	0.69	0.67	0.66	0.64	0.62	0.61	0.60	0.58
90.0	0.95	0.91	0.88	0.85	0.82	0.80	0.77	0.75	0.73	0.71	0.69	0.67	0.65	0.64	0.62	0.61	0.60	0.58	0.57	0.56
100.0	0.87	0.84	0.82	0.79	0.77	0.74	0.72	0.70	0.69	0.67	0.65	0.64	0.62	0.61	0.59	0.58	0.57	0.56	0.55	0.53
110.0	0.81	0.78	0.76	0.74	0.72	0.70	0.68	0.67	0.65	0.63	0.62	0.61	0.59	0.58	0.57	0.56	0.55	0.54	0.52	0.52
120.0	0.75	0.73	0.71	0.70	0.68	0.66	0.65	0.63	0.62	0.60	0.59	0.58	0.57	0.56	0.55	0.54	0.53	0.52	0.51	0.50
130.0	0.71	0.69	0.67	0.66	0.64	0.63	0.62	0.60	0.59	0.58	0.57	0.56	0.55	0.53	0.53	0.52	0.51	0.50	0.49	0.48
140.0	0.67	0.66	0.64	0.63	0.61	0.60	0.59	0.58	0.57	0.55	0.54	0.53	0.53	0.52	0.51	0.50	0.49	0.48	0.47	0.47
150.0	0.64	0.62	0.61	0.60	0.59	0.58	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
160.0	0.61	0.60	0.58	0.57	0.56	0.55	0.54	0.53	0.52	0.52	0.51	0.50	0.49	0.48	0.48	0.47	0.46	0.46	0.45	0.44
170.0	0.58	0.57	0.56	0.55	0.54	0.53	0.52	0.52	0.51	0.50	0.49	0.48	0.48	0.47	0.46	0.46	0.45	0.44	0.44	0.43
180.0	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	0.46	0.45	0.45	0.44	0.43	0.43	0.42
190.0	0.54	0.53	0.52	0.51	0.51	0.50	0.49	0.48	0.48	0.47	0.47	0.46	0.45	0.45	0.44	0.44	0.43	0.42	0.42	0.41

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

URANIUM 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
TRACE	22.16	14.29	11.36	9.69	8.57	7.75	7.11	6.60	6.17	5.81	5.50	5.23	4.99	4.78	4.58	4.41	4.25	4.10	3.96	3.83
10.0	10.72	9.30	8.31	7.57	6.98	6.50	6.10	5.75	5.46	5.20	4.96	4.75	4.57	4.39	4.24	4.09	3.96	3.83	3.72	3.61
20.0	8.07	7.39	6.85	6.40	6.02	5.70	5.41	5.16	4.93	4.73	4.55	4.38	4.23	4.09	3.95	3.83	3.72	3.61	3.51	3.41
30.0	6.72	6.30	5.95	5.63	5.36	5.12	4.90	4.71	4.53	4.37	4.22	4.08	3.95	3.83	3.72	3.61	3.51	3.42	3.33	3.24
40.0	5.87	5.57	5.31	5.08	4.87	4.68	4.51	4.35	4.21	4.07	3.94	3.83	3.71	3.61	3.51	3.42	3.33	3.25	3.17	3.10
50.0	5.26	5.04	4.84	4.66	4.49	4.33	4.19	4.06	3.94	3.82	3.71	3.61	3.51	3.42	3.34	3.25	3.18	3.10	3.03	2.96
60.0	4.81	4.63	4.47	4.32	4.18	4.05	3.93	3.82	3.71	3.61	3.51	3.42	3.34	3.26	3.18	3.11	3.04	2.97	2.90	2.84
70.0	4.44	4.30	4.16	4.04	3.92	3.81	3.71	3.61	3.51	3.43	3.34	3.26	3.19	3.11	3.04	2.98	2.91	2.85	2.79	2.73
80.0	4.15	4.03	3.91	3.80	3.70	3.60	3.51	3.43	3.34	3.26	3.19	3.12	3.05	2.98	2.92	2.86	2.80	2.74	2.69	2.64
90.0	3.90	3.79	3.69	3.60	3.51	3.43	3.34	3.27	3.19	3.12	3.05	2.99	2.93	2.87	2.81	2.75	2.70	2.64	2.59	2.55
100.0	3.69	3.60	3.51	3.42	3.34	3.27	3.19	3.13	3.06	2.99	2.93	2.87	2.81	2.76	2.71	2.65	2.60	2.55	2.51	2.46
110.0	3.50	3.42	3.34	3.27	3.20	3.13	3.06	3.00	2.94	2.88	2.82	2.77	2.71	2.66	2.61	2.56	2.52	2.47	2.43	2.39
120.0	3.34	3.27	3.20	3.13	3.07	3.00	2.94	2.88	2.83	2.77	2.72	2.67	2.62	2.57	2.53	2.48	2.44	2.40	2.35	2.31
130.0	3.20	3.13	3.07	3.01	2.95	2.89	2.83	2.78	2.73	2.68	2.63	2.58	2.54	2.49	2.45	2.41	2.36	2.32	2.29	2.25
140.0	3.07	3.01	2.95	2.89	2.84	2.79	2.73	2.68	2.64	2.59	2.54	2.50	2.46	2.41	2.37	2.33	2.30	2.26	2.22	2.18
150.0	2.95	2.90	2.84	2.79	2.74	2.69	2.64	2.60	2.55	2.51	2.47	2.42	2.38	2.34	2.31	2.27	2.23	2.20	2.16	2.13
160.0	2.85	2.80	2.75	2.70	2.65	2.60	2.56	2.52	2.47	2.43	2.39	2.35	2.32	2.28	2.24	2.21	2.17	2.14	2.10	2.07
170.0	2.75	2.70	2.66	2.61	2.57	2.52	2.48	2.44	2.40	2.36	2.33	2.29	2.25	2.22	2.18	2.15	2.12	2.08	2.05	2.02
180.0	2.66	2.62	2.58	2.53	2.49	2.45	2.41	2.37	2.33	2.30	2.26	2.23	2.19	2.16	2.13	2.09	2.06	2.03	2.00	1.97
190.0	2.58	2.54	2.50	2.46	2.42	2.38	2.34	2.31	2.27	2.24	2.20	2.17	2.14	2.10	2.07	2.04	2.01	1.98	1.95	1.93

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 4.00
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

URANIUM 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
TRACE	28.07	10.63	6.81	5.05	4.02	3.34	2.86	2.49	2.21	1.98	1.79	1.64	1.50	1.39	1.29	1.20	1.12	1.05	0.99	0.93
10.0	6.84	5.09	4.07	3.38	2.90	2.53	2.24	2.01	1.82	1.66	1.53	1.41	1.31	1.22	1.14	1.07	1.01	0.95	0.90	0.85
20.0	4.10	3.42	2.93	2.56	2.27	2.04	1.85	1.69	1.55	1.43	1.33	1.24	1.16	1.09	1.02	0.96	0.91	0.86	0.82	0.78
30.0	2.96	2.59	2.30	2.07	1.88	1.71	1.57	1.46	1.35	1.26	1.18	1.11	1.04	0.98	0.93	0.88	0.83	0.79	0.75	0.72
40.0	2.33	2.10	1.90	1.74	1.60	1.48	1.37	1.28	1.20	1.12	1.06	1.00	0.94	0.89	0.85	0.81	0.77	0.73	0.70	0.67
50.0	1.93	1.76	1.62	1.50	1.39	1.30	1.22	1.14	1.08	1.02	0.96	0.91	0.86	0.82	0.78	0.75	0.71	0.68	0.65	0.62
60.0	1.65	1.52	1.42	1.32	1.24	1.16	1.09	1.03	0.98	0.93	0.88	0.84	0.80	0.76	0.73	0.69	0.66	0.64	0.61	0.59
70.0	1.44	1.34	1.26	1.18	1.11	1.05	0.99	0.94	0.89	0.85	0.81	0.77	0.74	0.71	0.68	0.65	0.62	0.60	0.57	0.55
80.0	1.28	1.20	1.13	1.07	1.01	0.96	0.91	0.87	0.83	0.79	0.75	0.72	0.69	0.66	0.63	0.61	0.58	0.56	0.54	0.52
90.0	1.15	1.08	1.03	0.97	0.93	0.88	0.84	0.80	0.77	0.73	0.70	0.67	0.64	0.62	0.59	0.57	0.55	0.53	0.51	0.49
100.0	1.04	0.99	0.94	0.90	0.85	0.82	0.78	0.75	0.71	0.68	0.66	0.63	0.61	0.58	0.56	0.54	0.52	0.50	0.48	0.47
110.0	0.96	0.91	0.87	0.83	0.79	0.76	0.73	0.70	0.67	0.64	0.62	0.59	0.57	0.55	0.53	0.51	0.49	0.48	0.46	0.44
120.0	0.88	0.84	0.81	0.77	0.74	0.71	0.68	0.65	0.63	0.61	0.58	0.56	0.54	0.52	0.50	0.49	0.47	0.45	0.44	0.42
130.0	0.82	0.79	0.75	0.72	0.69	0.67	0.64	0.62	0.59	0.57	0.55	0.53	0.51	0.50	0.48	0.46	0.45	0.43	0.42	0.40
140.0	0.77	0.74	0.71	0.68	0.65	0.63	0.61	0.58	0.56	0.54	0.52	0.51	0.49	0.47	0.46	0.44	0.43	0.41	0.40	0.39
150.0	0.72	0.69	0.67	0.64	0.62	0.60	0.57	0.55	0.53	0.52	0.50	0.48	0.47	0.45	0.44	0.42	0.41	0.40	0.38	0.37
160.0	0.68	0.65	0.63	0.61	0.59	0.56	0.54	0.53	0.51	0.49	0.48	0.46	0.44	0.43	0.42	0.40	0.39	0.38	0.37	0.36
170.0	0.64	0.62	0.60	0.58	0.56	0.54	0.52	0.50	0.49	0.47	0.45	0.44	0.43	0.41	0.40	0.39	0.38	0.36	0.35	0.34
180.0	0.61	0.59	0.57	0.55	0.53	0.51	0.50	0.48	0.46	0.45	0.43	0.42	0.41	0.40	0.38	0.37	0.36	0.35	0.34	0.33
190.0	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	0.36	0.35	0.34	0.33	0.32

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 4.00
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 40.00

URANIUM CONC-G/L	PLUTONIUM CONCENTRATION - 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
TRACE	25.21	9.64	6.23	4.66	3.75	3.14	2.71	2.39	2.14	1.93	1.77	1.63	1.51	1.41	1.32	1.24	1.17	1.11	1.06	1.01
10.0	6.26	4.70	3.79	3.18	2.75	2.42	2.17	1.97	1.80	1.66	1.54	1.43	1.34	1.26	1.19	1.13	1.08	1.03	0.98	0.94
20.0	3.83	3.22	2.79	2.46	2.20	2.00	1.83	1.68	1.56	1.46	1.37	1.29	1.22	1.15	1.10	1.05	1.00	0.96	0.92	0.88
30.0	2.82	2.49	2.23	2.03	1.86	1.71	1.59	1.48	1.39	1.31	1.24	1.18	1.12	1.07	1.02	0.98	0.94	0.90	0.87	0.84
40.0	2.26	2.06	1.88	1.74	1.62	1.51	1.42	1.33	1.26	1.20	1.14	1.09	1.04	1.00	0.96	0.92	0.88	0.85	0.82	0.80
50.0	1.91	1.77	1.64	1.53	1.44	1.36	1.28	1.22	1.16	1.11	1.06	1.01	0.97	0.94	0.90	0.87	0.84	0.81	0.79	0.76
60.0	1.67	1.56	1.46	1.38	1.31	1.24	1.18	1.13	1.08	1.03	0.99	0.96	0.92	0.89	0.86	0.83	0.80	0.78	0.76	0.74
70.0	1.49	1.40	1.33	1.26	1.20	1.15	1.10	1.05	1.01	0.97	0.94	0.91	0.88	0.85	0.82	0.80	0.77	0.75	0.73	0.71
80.0	1.35	1.28	1.22	1.17	1.12	1.07	1.03	0.99	0.96	0.92	0.89	0.86	0.84	0.81	0.79	0.77	0.75	0.73	0.71	0.69
90.0	1.24	1.19	1.14	1.09	1.05	1.01	0.97	0.94	0.91	0.88	0.85	0.83	0.81	0.78	0.76	0.74	0.72	0.71	0.69	0.67
100.0	1.16	1.11	1.07	1.03	0.99	0.96	0.93	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
110.0	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	0.74	0.72	0.70	0.69	0.67	0.66	0.64
120.0	1.03	1.00	0.96	0.93	0.91	0.88	0.86	0.83	0.81	0.79	0.77	0.75	0.73	0.72	0.70	0.69	0.67	0.66	0.65	0.63
130.0	0.98	0.95	0.92	0.90	0.87	0.85	0.83	0.81	0.79	0.77	0.75	0.73	0.72	0.70	0.69	0.67	0.66	0.65	0.64	0.62
140.0	0.94	0.91	0.89	0.87	0.84	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	0.62
150.0	0.91	0.88	0.86	0.84	0.82	0.80	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
160.0	0.88	0.86	0.84	0.82	0.80	0.78	0.76	0.75	0.73	0.72	0.71	0.69	0.68	0.67	0.66	0.65	0.64	0.62	0.62	0.61
170.0	0.85	0.83	0.81	0.80	0.78	0.76	0.75	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
180.0	0.83	0.81	0.80	0.78	0.77	0.75	0.74	0.72	0.71	0.70	0.69	0.68	0.67	0.65	0.64	0.64	0.63	0.62	0.61	0.60
190.0	0.81	0.80	0.78	0.77	0.75	0.74	0.73	0.71	0.70	0.69	0.68	0.67	0.66	0.65	0.64	0.63	0.62	0.62	0.61	0.60

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 4.00
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

URANIUM 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
TRACE	20.76	12.08	9.47	8.06	7.12	6.44	5.92	5.49	5.14	4.85	4.59	4.37	4.17	3.99	3.83	3.69	3.55	3.43	3.32	3.21
10.0	9.53	8.11	7.17	6.49	5.96	5.54	5.19	4.89	4.63	4.41	4.21	4.03	3.86	3.72	3.58	3.46	3.34	3.24	3.14	3.05
20.0	7.22	6.54	6.01	5.58	5.23	4.93	4.67	4.44	4.24	4.06	3.90	3.75	3.61	3.49	3.37	3.27	3.17	3.07	2.99	2.90
30.0	6.05	5.63	5.27	4.97	4.71	4.48	4.28	4.10	3.93	3.78	3.65	3.52	3.40	3.30	3.19	3.10	3.01	2.93	2.85	2.78
40.0	5.31	5.01	4.75	4.52	4.31	4.13	3.97	3.82	3.68	3.55	3.43	3.32	3.22	3.13	3.04	2.95	2.88	2.80	2.73	2.66
50.0	4.78	4.55	4.35	4.15	4.00	3.85	3.71	3.58	3.46	3.35	3.25	3.16	3.07	2.98	2.90	2.83	2.75	2.69	2.62	2.56
60.0	4.38	4.20	4.03	3.88	3.74	3.61	3.49	3.38	3.28	3.18	3.09	3.01	2.93	2.85	2.78	2.71	2.65	2.58	2.52	2.47
70.0	4.07	3.91	3.77	3.64	3.52	3.41	3.31	3.21	3.12	3.04	2.95	2.88	2.80	2.74	2.67	2.61	2.55	2.49	2.43	2.38
80.0	3.80	3.67	3.55	3.44	3.34	3.24	3.15	3.06	2.98	2.90	2.83	2.76	2.69	2.63	2.57	2.51	2.46	2.40	2.35	2.30
90.0	3.59	3.47	3.37	3.27	3.18	3.09	3.01	2.93	2.86	2.79	2.72	2.66	2.59	2.54	2.48	2.43	2.37	2.32	2.28	2.23
100.0	3.40	3.30	3.21	3.12	3.04	2.96	2.88	2.81	2.74	2.68	2.62	2.56	2.50	2.45	2.40	2.35	2.30	2.25	2.21	2.16
110.0	3.23	3.15	3.06	2.98	2.91	2.84	2.77	2.71	2.64	2.58	2.53	2.47	2.42	2.37	2.32	2.27	2.23	2.18	2.14	2.10
120.0	3.09	3.01	2.94	2.86	2.80	2.73	2.67	2.61	2.55	2.50	2.44	2.39	2.34	2.30	2.25	2.21	2.16	2.12	2.08	2.04
130.0	2.96	2.89	2.82	2.76	2.69	2.63	2.58	2.52	2.47	2.42	2.37	2.32	2.27	2.23	2.18	2.14	2.10	2.06	2.03	1.99
140.0	2.85	2.78	2.72	2.66	2.60	2.55	2.49	2.44	2.39	2.34	2.30	2.25	2.21	2.16	2.12	2.08	2.05	2.01	1.97	1.94
150.0	2.75	2.68	2.63	2.57	2.52	2.46	2.41	2.37	2.32	2.27	2.23	2.19	2.15	2.11	2.07	2.03	1.99	1.96	1.92	1.89
160.0	2.65	2.60	2.54	2.49	2.44	2.39	2.34	2.30	2.25	2.21	2.17	2.13	2.09	2.05	2.01	1.98	1.94	1.91	1.88	1.84
170.0	2.57	2.51	2.46	2.41	2.37	2.32	2.28	2.23	2.19	2.15	2.11	2.07	2.04	2.00	1.96	1.93	1.90	1.86	1.83	1.80
180.0	2.49	2.44	2.39	2.34	2.30	2.26	2.21	2.17	2.13	2.09	2.06	2.02	1.98	1.95	1.92	1.88	1.85	1.82	1.79	1.76
190.0	2.41	2.37	2.32	2.28	2.24	2.20	2.16	2.12	2.08	2.04	2.01	1.97	1.94	1.90	1.87	1.84	1.81	1.78	1.75	1.72

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

URANIUM CONC-G/L	PLUTONIUM CONCENTRATION - 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
TRACE	29.12	9.29	5.78	4.23	3.34	2.76	2.35	2.04	1.80	1.61	1.46	1.32	1.21	1.12	1.04	0.96	0.90	0.84	0.79	0.74
10.0	6.71	4.72	3.65	2.98	2.51	2.17	1.91	1.70	1.53	1.39	1.27	1.17	1.08	1.00	0.93	0.87	0.82	0.77	0.73	0.69
20.0	4.02	3.23	2.69	2.31	2.02	1.79	1.61	1.45	1.33	1.22	1.12	1.04	0.97	0.91	0.85	0.80	0.75	0.71	0.67	0.64
30.0	2.90	2.47	2.14	1.89	1.69	1.53	1.39	1.27	1.17	1.08	1.01	0.94	0.88	0.83	0.78	0.73	0.69	0.66	0.62	0.59
40.0	2.28	2.01	1.79	1.61	1.46	1.33	1.22	1.13	1.05	0.98	0.91	0.86	0.81	0.76	0.72	0.68	0.64	0.61	0.58	0.55
50.0	1.89	1.69	1.53	1.40	1.28	1.18	1.09	1.02	0.95	0.89	0.84	0.79	0.74	0.70	0.67	0.63	0.60	0.57	0.55	0.52
60.0	1.61	1.47	1.34	1.24	1.14	1.06	0.99	0.93	0.87	0.82	0.77	0.73	0.69	0.65	0.62	0.59	0.56	0.54	0.51	0.49
70.0	1.41	1.29	1.19	1.11	1.03	0.96	0.90	0.85	0.80	0.76	0.72	0.68	0.64	0.61	0.58	0.56	0.53	0.51	0.49	0.46
80.0	1.25	1.16	1.08	1.01	0.94	0.88	0.83	0.79	0.74	0.70	0.67	0.63	0.60	0.57	0.55	0.52	0.50	0.48	0.46	0.44
90.0	1.13	1.05	0.98	0.92	0.87	0.82	0.77	0.73	0.69	0.66	0.62	0.59	0.57	0.54	0.52	0.49	0.47	0.45	0.44	0.42
100.0	1.02	0.96	0.90	0.85	0.80	0.76	0.72	0.68	0.65	0.62	0.59	0.56	0.53	0.51	0.49	0.47	0.45	0.43	0.41	0.40
110.0	0.94	0.88	0.83	0.79	0.75	0.71	0.67	0.64	0.61	0.58	0.55	0.53	0.51	0.48	0.46	0.45	0.43	0.41	0.39	0.38
120.0	0.87	0.82	0.78	0.73	0.70	0.66	0.63	0.60	0.57	0.55	0.52	0.50	0.48	0.46	0.44	0.42	0.41	0.39	0.38	0.36
130.0	0.81	0.76	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	0.40	0.39	0.37	0.36	0.35
140.0	0.75	0.72	0.68	0.65	0.62	0.59	0.56	0.54	0.51	0.49	0.47	0.45	0.44	0.42	0.40	0.39	0.37	0.36	0.34	0.33
150.0	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	0.38	0.37	0.36	0.34	0.33	0.32
160.0	0.67	0.64	0.61	0.58	0.55	0.53	0.51	0.49	0.47	0.45	0.43	0.41	0.40	0.38	0.37	0.35	0.34	0.33	0.32	0.31
170.0	0.63	0.60	0.58	0.55	0.53	0.50	0.48	0.46	0.45	0.43	0.41	0.40	0.38	0.37	0.35	0.34	0.33	0.32	0.31	0.29
180.0	0.60	0.57	0.55	0.52	0.50	0.48	0.46	0.44	0.43	0.41	0.39	0.38	0.36	0.35	0.34	0.33	0.32	0.30	0.29	0.28
190.0	0.57	0.54	0.52	0.50	0.48	0.46	0.44	0.42	0.41	0.39	0.38	0.36	0.35	0.34	0.33	0.31	0.30	0.29	0.28	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

URANIUM 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
TRACE	31.90	10.28	6.47	4.78	3.82	3.19	2.74	2.41	2.15	1.94	1.78	1.63	1.51	1.41	1.32	1.24	1.17	1.11	1.06	1.00
10.0	7.59	5.40	4.22	3.48	2.97	2.59	2.30	2.07	1.89	1.73	1.60	1.49	1.39	1.31	1.23	1.17	1.11	1.06	1.01	0.96
20.0	4.70	3.81	3.22	2.79	2.47	2.21	2.01	1.84	1.70	1.58	1.47	1.38	1.30	1.23	1.17	1.11	1.06	1.01	0.97	0.93
30.0	3.51	3.02	2.65	2.37	2.14	1.95	1.80	1.67	1.55	1.46	1.37	1.29	1.23	1.17	1.11	1.06	1.02	0.97	0.94	0.90
40.0	2.86	2.54	2.29	2.08	1.91	1.77	1.65	1.54	1.45	1.36	1.29	1.23	1.17	1.12	1.07	1.02	0.98	0.95	0.91	0.88
50.0	2.45	2.22	2.03	1.88	1.74	1.63	1.53	1.44	1.36	1.29	1.23	1.17	1.12	1.07	1.03	0.99	0.96	0.92	0.89	0.86
60.0	2.17	2.00	1.85	1.73	1.62	1.52	1.44	1.36	1.30	1.23	1.18	1.13	1.08	1.04	1.00	0.97	0.94	0.90	0.88	0.85
70.0	1.97	1.83	1.71	1.61	1.52	1.44	1.37	1.30	1.24	1.19	1.14	1.10	1.05	1.02	0.98	0.95	0.92	0.89	0.86	0.84
80.0	1.82	1.70	1.61	1.52	1.44	1.37	1.31	1.25	1.20	1.15	1.11	1.07	1.03	1.00	0.97	0.94	0.91	0.88	0.86	0.83
90.0	1.70	1.61	1.52	1.45	1.38	1.32	1.26	1.21	1.17	1.12	1.09	1.05	1.01	0.98	0.95	0.93	0.90	0.88	0.85	0.83
100.0	1.61	1.53	1.46	1.39	1.33	1.28	1.23	1.18	1.14	1.10	1.07	1.03	1.00	0.97	0.95	0.92	0.90	0.87	0.85	0.83
110.0	1.54	1.47	1.41	1.35	1.30	1.25	1.20	1.16	1.12	1.09	1.06	1.02	1.00	0.97	0.94	0.92	0.90	0.88	0.86	0.84
120.0	1.49	1.43	1.37	1.32	1.27	1.22	1.18	1.15	1.11	1.08	1.05	1.02	0.99	0.97	0.94	0.92	0.90	0.88	0.86	0.84
130.0	1.45	1.39	1.34	1.29	1.25	1.21	1.17	1.14	1.10	1.07	1.05	1.02	0.99	0.97	0.95	0.93	0.91	0.89	0.87	0.85
140.0	1.41	1.36	1.32	1.27	1.24	1.20	1.16	1.13	1.10	1.07	1.05	1.02	1.00	0.98	0.96	0.94	0.92	0.90	0.88	0.87
150.0	1.39	1.35	1.30	1.26	1.23	1.19	1.16	1.13	1.10	1.08	1.05	1.03	1.01	0.99	0.97	0.95	0.93	0.91	0.90	0.88
160.0	1.38	1.34	1.30	1.26	1.23	1.20	1.17	1.14	1.11	1.09	1.06	1.04	1.02	1.00	0.98	0.97	0.95	0.93	0.92	0.90
170.0	1.37	1.33	1.30	1.26	1.23	1.20	1.17	1.15	1.12	1.10	1.08	1.06	1.04	1.02	1.00	0.99	0.97	0.96	0.94	0.93
180.0	1.37	1.34	1.30	1.27	1.24	1.21	1.19	1.16	1.14	1.12	1.10	1.08	1.06	1.04	1.03	1.01	1.00	0.98	0.97	0.96
190.0	1.38	1.35	1.31	1.28	1.26	1.23	1.21	1.18	1.16	1.14	1.12	1.11	1.09	1.07	1.06	1.04	1.03	1.02	1.01	0.99

DISTRIBUTION COEFFICIENT FOR NITRIC ACID#10C

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

URANIUM 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
TRACE	18.67	10.19	7.96	6.76	5.98	5.41	4.97	4.62	4.32	4.08	3.86	3.68	3.51	3.36	3.23	3.10	2.99	2.89	2.79	2.71
10.0	8.62	7.16	6.26	5.63	5.14	4.76	4.45	4.19	3.96	3.76	3.59	3.43	3.29	3.16	3.05	2.94	2.84	2.75	2.67	2.59
20.0	6.59	5.87	5.34	4.92	4.58	4.30	4.06	3.85	3.67	3.51	3.36	3.23	3.11	3.00	2.89	2.80	2.71	2.63	2.55	2.48
30.0	5.56	5.10	4.73	4.43	4.17	3.95	3.76	3.59	3.43	3.29	3.17	3.05	2.95	2.85	2.76	2.67	2.60	2.52	2.45	2.39
40.0	4.89	4.57	4.29	4.06	3.85	3.67	3.51	3.37	3.23	3.11	3.00	2.90	2.81	2.72	2.64	2.56	2.49	2.42	2.36	2.30
50.0	4.42	4.17	3.95	3.76	3.59	3.44	3.30	3.18	3.06	2.96	2.86	2.77	2.69	2.61	2.53	2.46	2.40	2.33	2.28	2.22
60.0	4.06	3.86	3.68	3.52	3.38	3.25	3.13	3.02	2.92	2.82	2.74	2.65	2.58	2.50	2.44	2.37	2.31	2.25	2.20	2.15
70.0	3.78	3.61	3.46	3.32	3.20	3.08	2.98	2.88	2.79	2.70	2.62	2.55	2.48	2.41	2.35	2.29	2.23	2.18	2.13	2.08
80.0	3.54	3.40	3.27	3.15	3.04	2.94	2.84	2.75	2.67	2.60	2.52	2.45	2.39	2.33	2.27	2.21	2.16	2.11	2.06	2.02
90.0	3.35	3.22	3.11	3.00	2.90	2.81	2.72	2.64	2.57	2.50	2.43	2.37	2.31	2.25	2.20	2.14	2.09	2.05	2.00	1.96
100.0	3.18	3.07	2.96	2.87	2.78	2.70	2.62	2.55	2.48	2.41	2.35	2.29	2.23	2.18	2.13	2.08	2.03	1.99	1.94	1.90
110.0	3.03	2.93	2.84	2.75	2.67	2.59	2.52	2.46	2.39	2.33	2.27	2.22	2.16	2.11	2.07	2.02	1.98	1.93	1.89	1.85
120.0	2.90	2.81	2.73	2.65	2.57	2.50	2.44	2.37	2.31	2.26	2.20	2.15	2.10	2.05	2.01	1.96	1.92	1.88	1.84	1.80
130.0	2.78	2.70	2.63	2.55	2.48	2.42	2.36	2.30	2.24	2.19	2.14	2.09	2.04	2.00	1.95	1.91	1.87	1.83	1.79	1.76
140.0	2.68	2.61	2.53	2.47	2.40	2.34	2.28	2.23	2.18	2.12	2.08	2.03	1.99	1.94	1.90	1.86	1.82	1.79	1.75	1.72
150.0	2.59	2.52	2.45	2.39	2.33	2.27	2.22	2.16	2.11	2.07	2.02	1.98	1.93	1.89	1.85	1.81	1.78	1.74	1.71	1.67
160.0	2.50	2.44	2.38	2.32	2.26	2.21	2.15	2.10	2.06	2.01	1.97	1.92	1.88	1.84	1.81	1.77	1.73	1.70	1.67	1.63
170.0	2.43	2.36	2.31	2.25	2.20	2.14	2.10	2.05	2.00	1.96	1.92	1.88	1.84	1.80	1.76	1.73	1.69	1.66	1.63	1.60
180.0	2.35	2.30	2.24	2.19	2.14	2.09	2.04	2.00	1.95	1.91	1.87	1.83	1.79	1.76	1.72	1.69	1.65	1.62	1.59	1.56
190.0	2.29	2.23	2.18	2.13	2.08	2.03	1.99	1.95	1.90	1.86	1.83	1.79	1.75	1.72	1.68	1.65	1.62	1.59	1.56	1.53

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 - 45.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	0.13	0.23	0.33	0.45	0.55	0.65	0.73	0.81	0.86	0.91	0.94	0.96	0.97	0.98	0.98	0.97	0.97	0.96	0.94	0.93
10.0	0.33	0.44	0.54	0.64	0.72	0.79	0.84	0.89	0.92	0.94	0.95	0.96	0.96	0.96	0.95	0.94	0.93	0.92	0.90	0.89
20.0	0.53	0.63	0.71	0.77	0.83	0.87	0.90	0.92	0.93	0.94	0.94	0.94	0.93	0.93	0.92	0.90	0.89	0.88	0.86	0.84
30.0	0.69	0.76	0.81	0.85	0.88	0.90	0.92	0.92	0.93	0.92	0.92	0.91	0.90	0.89	0.88	0.86	0.85	0.83	0.82	0.80
40.0	0.79	0.83	0.86	0.89	0.90	0.91	0.91	0.91	0.90	0.90	0.89	0.88	0.87	0.85	0.84	0.82	0.81	0.80	0.78	0.77
50.0	0.85	0.87	0.88	0.89	0.89	0.89	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.81	0.80	0.79	0.77	0.76	0.74	0.73
60.0	0.87	0.87	0.88	0.88	0.87	0.87	0.86	0.85	0.84	0.83	0.82	0.80	0.79	0.78	0.76	0.75	0.74	0.72	0.71	0.70
70.0	0.86	0.86	0.86	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.78	0.77	0.76	0.74	0.73	0.72	0.70	0.69	0.68	0.66
80.0	0.85	0.84	0.84	0.83	0.82	0.81	0.80	0.79	0.77	0.76	0.75	0.74	0.72	0.71	0.70	0.68	0.67	0.66	0.65	0.63
90.0	0.82	0.82	0.81	0.80	0.79	0.78	0.76	0.75	0.74	0.73	0.72	0.70	0.69	0.68	0.67	0.65	0.64	0.63	0.62	0.61
100.0	0.80	0.79	0.78	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	0.61	0.60	0.59	0.58
110.0	0.77	0.76	0.75	0.74	0.72	0.71	0.70	0.69	0.68	0.67	0.66	0.64	0.63	0.62	0.61	0.60	0.59	0.58	0.57	0.56
120.0	0.74	0.73	0.72	0.71	0.69	0.68	0.67	0.66	0.65	0.64	0.63	0.62	0.61	0.60	0.58	0.57	0.56	0.55	0.54	0.53
130.0	0.71	0.70	0.69	0.68	0.67	0.66	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
140.0	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	0.49
150.0	0.65	0.64	0.63	0.62	0.61	0.60	0.59	0.58	0.57	0.56	0.55	0.55	0.54	0.53	0.52	0.51	0.50	0.49	0.48	0.47
160.0	0.63	0.62	0.61	0.60	0.59	0.58	0.57	0.56	0.55	0.54	0.53	0.52	0.52	0.51	0.50	0.49	0.48	0.47	0.47	0.46
170.0	0.60	0.59	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	0.47	0.46	0.46	0.45	0.44
180.0	0.58	0.57	0.56	0.55	0.55	0.54	0.53	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
190.0	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	0.43	0.42	0.41

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 - 45.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	0.10	0.16	0.24	0.32	0.40	0.47	0.53	0.58	0.62	0.65	0.68	0.69	0.70	0.71	0.71	0.71	0.70	0.70	0.69	0.68
10.0	0.23	0.31	0.38	0.45	0.51	0.55	0.59	0.62	0.65	0.66	0.67	0.68	0.68	0.68	0.67	0.67	0.66	0.65	0.64	0.63
20.0	0.36	0.43	0.48	0.53	0.57	0.60	0.62	0.63	0.64	0.65	0.65	0.65	0.65	0.64	0.63	0.63	0.62	0.61	0.60	0.59
30.0	0.46	0.51	0.54	0.57	0.59	0.60	0.61	0.62	0.62	0.62	0.62	0.61	0.61	0.60	0.59	0.59	0.58	0.57	0.56	0.55
40.0	0.52	0.54	0.56	0.58	0.59	0.59	0.60	0.60	0.59	0.59	0.59	0.58	0.57	0.56	0.56	0.55	0.54	0.53	0.52	0.51
50.0	0.54	0.55	0.56	0.57	0.57	0.57	0.57	0.57	0.56	0.56	0.55	0.54	0.54	0.53	0.52	0.51	0.50	0.50	0.49	0.48
60.0	0.54	0.55	0.55	0.55	0.55	0.55	0.54	0.54	0.53	0.52	0.52	0.51	0.50	0.50	0.49	0.48	0.47	0.46	0.46	0.45
70.0	0.53	0.53	0.53	0.52	0.52	0.52	0.51	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
80.0	0.51	0.51	0.50	0.50	0.49	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
90.0	0.48	0.48	0.48	0.47	0.47	0.46	0.45	0.45	0.44	0.43	0.43	0.42	0.42	0.41	0.40	0.40	0.39	0.38	0.38	0.37
100.0	0.46	0.45	0.45	0.44	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	0.35
110.0	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
120.0	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	0.33	0.32	0.32	0.31
130.0	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	0.31	0.30	0.30
140.0	0.37	0.36	0.36	0.35	0.35	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	0.29	0.28
150.0	0.35	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	0.29	0.28	0.28	0.28	0.27	0.27
160.0	0.33	0.32	0.32	0.32	0.31	0.31	0.30	0.30	0.30	0.29	0.29	0.28	0.28	0.28	0.27	0.27	0.27	0.26	0.26	0.26
170.0	0.31	0.31	0.30	0.30	0.30	0.29	0.29	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
180.0	0.30	0.29	0.29	0.29	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	0.24	0.23
190.0	0.28	0.28	0.27	0.27	0.27	0.26	0.26	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

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 - 45.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	4.29	5.66	6.85	7.85	8.64	9.22	9.60	9.82	9.89	9.86	9.75	9.58	9.37	9.13	8.87	8.60	8.33	8.05	7.79	7.52
10.0	6.79	7.76	8.53	9.09	9.46	9.67	9.75	9.72	9.61	9.45	9.24	9.01	8.76	8.50	8.24	7.98	7.71	7.46	7.21	6.97
20.0	8.42	8.96	9.32	9.53	9.60	9.58	9.48	9.32	9.12	8.90	8.66	8.41	8.15	7.90	7.64	7.39	7.15	6.92	6.69	6.47
30.0	9.19	9.39	9.46	9.44	9.34	9.19	9.01	8.79	8.56	8.31	8.07	7.82	7.57	7.33	7.09	6.86	6.64	6.43	6.22	6.02
40.0	9.33	9.31	9.22	9.07	8.89	8.68	8.46	8.22	7.98	7.74	7.50	7.26	7.03	6.81	6.59	6.38	6.18	5.98	5.80	5.62
50.0	9.09	8.95	8.77	8.57	8.36	8.13	7.90	7.66	7.43	7.20	6.97	6.75	6.54	6.34	6.14	5.95	5.76	5.59	5.42	5.26
60.0	8.66	8.47	8.26	8.04	7.81	7.58	7.36	7.13	6.91	6.70	6.49	6.29	6.10	5.91	5.73	5.56	5.39	5.24	5.08	4.94
70.0	8.16	7.95	7.73	7.51	7.29	7.07	6.85	6.65	6.44	6.25	6.06	5.87	5.70	5.53	5.36	5.21	5.06	4.92	4.78	4.65
80.0	7.65	7.43	7.22	7.00	6.80	6.59	6.39	6.20	6.01	5.83	5.66	5.49	5.34	5.18	5.04	4.90	4.76	4.63	4.51	4.39
90.0	7.15	6.94	6.74	6.54	6.34	6.15	5.97	5.80	5.63	5.46	5.31	5.16	5.01	4.87	4.74	4.62	4.49	4.38	4.27	4.16
100.0	6.68	6.48	6.29	6.11	5.93	5.76	5.59	5.43	5.28	5.13	4.99	4.85	4.72	4.60	4.48	4.36	4.25	4.15	4.05	3.96
110.0	6.24	6.06	5.89	5.72	5.55	5.40	5.25	5.10	4.96	4.83	4.70	4.58	4.46	4.35	4.24	4.14	4.04	3.94	3.85	3.77
120.0	5.84	5.68	5.52	5.36	5.22	5.07	4.94	4.80	4.68	4.56	4.44	4.33	4.22	4.12	4.03	3.93	3.84	3.76	3.68	3.60
130.0	5.48	5.33	5.18	5.04	4.91	4.78	4.66	4.54	4.42	4.31	4.21	4.11	4.01	3.92	3.83	3.75	3.67	3.59	3.52	3.45
140.0	5.15	5.02	4.88	4.76	4.63	4.52	4.40	4.30	4.19	4.09	4.00	3.91	3.82	3.74	3.66	3.58	3.51	3.44	3.37	3.31
150.0	4.86	4.73	4.61	4.49	4.38	4.28	4.18	4.08	3.98	3.90	3.81	3.73	3.65	3.57	3.50	3.43	3.37	3.30	3.24	3.18
160.0	4.59	4.47	4.36	4.26	4.16	4.06	3.97	3.88	3.80	3.72	3.64	3.56	3.49	3.42	3.36	3.29	3.23	3.18	3.12	3.07
170.0	4.35	4.24	4.14	4.05	3.96	3.87	3.78	3.70	3.63	3.55	3.48	3.42	3.35	3.29	3.23	3.17	3.11	3.06	3.01	2.96
180.0	4.13	4.03	3.94	3.86	3.77	3.69	3.62	3.54	3.47	3.41	3.34	3.28	3.22	3.16	3.11	3.06	3.01	2.96	2.91	2.86
190.0	3.93	3.84	3.76	3.68	3.61	3.53	3.46	3.40	3.33	3.27	3.21	3.16	3.10	3.05	3.00	2.95	2.91	2.86	2.82	2.77

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 - 45.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	0.72	0.84	0.95	1.03	1.10	1.14	1.18	1.19	1.20	1.20	1.19	1.18	1.16	1.14	1.12	1.10	1.07	1.05	1.02	1.00
10.0	0.92	1.00	1.07	1.11	1.14	1.16	1.17	1.17	1.16	1.15	1.14	1.12	1.10	1.08	1.06	1.03	1.01	0.99	0.96	0.94
20.0	1.04	1.08	1.12	1.13	1.14	1.14	1.14	1.13	1.11	1.10	1.08	1.06	1.04	1.02	0.99	0.97	0.95	0.93	0.91	0.88
30.0	1.09	1.11	1.12	1.12	1.11	1.10	1.09	1.08	1.06	1.04	1.02	1.00	0.98	0.96	0.94	0.92	0.90	0.87	0.85	0.83
40.0	1.09	1.09	1.09	1.08	1.07	1.06	1.04	1.02	1.00	0.99	0.97	0.95	0.92	0.90	0.88	0.86	0.85	0.83	0.81	0.79
50.0	1.07	1.06	1.05	1.04	1.02	1.01	0.99	0.97	0.95	0.93	0.91	0.89	0.87	0.85	0.84	0.82	0.80	0.78	0.76	0.75
60.0	1.03	1.02	1.00	0.99	0.97	0.96	0.94	0.92	0.90	0.88	0.86	0.85	0.83	0.81	0.79	0.77	0.76	0.74	0.72	0.71
70.0	0.99	0.97	0.96	0.94	0.92	0.91	0.89	0.87	0.85	0.84	0.82	0.80	0.78	0.77	0.75	0.73	0.72	0.70	0.69	0.67
80.0	0.94	0.93	0.91	0.89	0.88	0.86	0.84	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
90.0	0.90	0.88	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	0.65	0.64	0.62	0.61
100.0	0.85	0.84	0.82	0.81	0.79	0.78	0.76	0.75	0.73	0.72	0.70	0.69	0.67	0.66	0.65	0.63	0.62	0.61	0.60	0.58
110.0	0.81	0.80	0.78	0.77	0.75	0.74	0.72	0.71	0.70	0.68	0.67	0.66	0.64	0.63	0.62	0.60	0.59	0.58	0.57	0.56
120.0	0.77	0.76	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	0.53
130.0	0.74	0.72	0.71	0.70	0.68	0.67	0.66	0.65	0.63	0.62	0.61	0.60	0.59	0.58	0.56	0.55	0.54	0.53	0.52	0.51
140.0	0.70	0.69	0.68	0.67	0.65	0.64	0.63	0.62	0.61	0.60	0.58	0.57	0.56	0.55	0.54	0.53	0.52	0.51	0.50	0.49
150.0	0.67	0.66	0.65	0.64	0.63	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
160.0	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	0.46	0.46
170.0	0.62	0.61	0.60	0.58	0.57	0.56	0.55	0.54	0.53	0.53	0.52	0.51	0.50	0.49	0.48	0.47	0.46	0.45	0.45	0.44
180.0	0.59	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	0.46	0.45	0.45	0.44	0.43	0.42
190.0	0.57	0.56	0.55	0.54	0.53	0.52	0.51	0.50	0.49	0.49	0.48	0.47	0.46	0.45	0.45	0.44	0.43	0.42	0.42	0.41

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 - 05.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	0.52	0.61	0.68	0.74	0.79	0.83	0.85	0.86	0.87	0.87	0.87	0.86	0.85	0.83	0.82	0.80	0.79	0.77	0.76	0.74
10.0	0.65	0.71	0.75	0.78	0.81	0.82	0.83	0.83	0.83	0.82	0.81	0.80	0.78	0.77	0.76	0.74	0.73	0.71	0.70	0.68
20.0	0.71	0.75	0.77	0.78	0.79	0.79	0.79	0.78	0.77	0.76	0.75	0.74	0.73	0.71	0.70	0.68	0.67	0.66	0.64	0.63
30.0	0.73	0.74	0.75	0.75	0.75	0.75	0.74	0.73	0.72	0.71	0.70	0.68	0.67	0.66	0.64	0.63	0.62	0.61	0.59	0.58
40.0	0.72	0.72	0.72	0.71	0.71	0.70	0.69	0.68	0.67	0.66	0.65	0.63	0.62	0.61	0.60	0.58	0.57	0.56	0.55	0.54
50.0	0.69	0.68	0.68	0.67	0.66	0.65	0.64	0.63	0.62	0.61	0.60	0.59	0.58	0.56	0.55	0.54	0.53	0.52	0.51	0.50
60.0	0.65	0.64	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
70.0	0.61	0.60	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	0.45	0.44
80.0	0.57	0.56	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	0.43	0.42	0.41
90.0	0.54	0.53	0.52	0.51	0.50	0.49	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
100.0	0.50	0.49	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	0.36
110.0	0.47	0.46	0.46	0.45	0.44	0.43	0.43	0.42	0.41	0.40	0.40	0.39	0.38	0.38	0.37	0.37	0.36	0.35	0.35	0.34
120.0	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	0.36	0.35	0.35	0.34	0.33	0.33	0.32
130.0	0.41	0.41	0.40	0.40	0.39	0.38	0.38	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
140.0	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	0.31	0.30	0.30	0.29
150.0	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	0.30	0.29	0.29	0.29	0.28	0.28
160.0	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	0.29	0.28	0.28	0.28	0.27	0.27	0.27
170.0	0.33	0.32	0.32	0.32	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	0.26	0.25
180.0	0.31	0.31	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	0.25	0.24
190.0	0.30	0.29	0.29	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	0.24	0.23

DISTRIBUTION COEFFICIENT FOR NITRIC ACID@10C

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 - 45.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	10.10	10.76	11.19	11.42	11.47	11.39	11.20	10.94	10.64	10.31	9.96	9.60	9.25	8.90	8.57	8.24	7.93	7.63	7.34	7.07
10.0	10.97	11.19	11.24	11.17	10.99	10.75	10.46	10.14	9.81	9.47	9.13	8.80	8.47	8.15	7.85	7.56	7.28	7.01	6.76	6.52
20.0	11.03	10.95	10.79	10.56	10.29	9.98	9.67	9.34	9.01	8.69	8.37	8.07	7.77	7.49	7.22	6.96	6.71	6.48	6.25	6.04
30.0	10.60	10.38	10.12	9.83	9.52	9.21	8.89	8.58	8.28	7.98	7.70	7.42	7.16	6.90	6.66	6.43	6.21	6.00	5.81	5.62
40.0	9.95	9.68	9.38	9.08	8.78	8.48	8.18	7.90	7.62	7.35	7.09	6.85	6.61	6.39	6.17	5.97	5.77	5.59	5.41	5.25
50.0	9.25	8.96	8.67	8.38	8.09	7.81	7.54	7.28	7.03	6.79	6.56	6.34	6.13	5.93	5.74	5.56	5.39	5.22	5.07	4.92
60.0	8.55	8.27	8.00	7.73	7.47	7.21	6.97	6.73	6.51	6.29	6.09	5.89	5.71	5.53	5.36	5.20	5.04	4.90	4.76	4.63
70.0	7.91	7.64	7.39	7.14	6.91	6.68	6.46	6.25	6.05	5.85	5.67	5.50	5.33	5.17	5.02	4.88	4.74	4.61	4.49	4.37
80.0	7.31	7.07	6.84	6.62	6.41	6.20	6.00	5.82	5.64	5.46	5.30	5.15	5.00	4.86	4.72	4.59	4.47	4.35	4.24	4.14
90.0	6.78	6.56	6.35	6.15	5.96	5.78	5.60	5.43	5.27	5.12	4.97	4.83	4.70	4.57	4.45	4.34	4.23	4.13	4.03	3.93
100.0	6.30	6.11	5.92	5.74	5.56	5.40	5.24	5.09	4.95	4.81	4.68	4.56	4.44	4.32	4.22	4.11	4.01	3.92	3.83	3.75
110.0	5.87	5.70	5.53	5.37	5.21	5.06	4.92	4.79	4.66	4.54	4.42	4.31	4.20	4.10	4.00	3.91	3.82	3.74	3.66	3.58
120.0	5.49	5.33	5.18	5.04	4.90	4.77	4.64	4.52	4.40	4.29	4.19	4.09	3.99	3.90	3.81	3.73	3.65	3.57	3.50	3.43
130.0	5.15	5.01	4.87	4.74	4.62	4.50	4.38	4.28	4.17	4.07	3.98	3.89	3.80	3.72	3.64	3.56	3.49	3.42	3.36	3.29
140.0	4.85	4.72	4.60	4.48	4.37	4.26	4.16	4.06	3.97	3.88	3.79	3.71	3.63	3.56	3.48	3.42	3.35	3.29	3.23	3.17
150.0	4.57	4.46	4.35	4.24	4.14	4.04	3.95	3.86	3.78	3.70	3.62	3.55	3.48	3.41	3.34	3.28	3.22	3.16	3.11	3.06
160.0	4.33	4.22	4.12	4.03	3.94	3.85	3.77	3.69	3.61	3.54	3.47	3.40	3.34	3.28	3.22	3.16	3.10	3.05	3.00	2.95
170.0	4.11	4.01	3.92	3.84	3.76	3.68	3.60	3.53	3.46	3.39	3.33	3.27	3.21	3.15	3.10	3.05	3.00	2.95	2.90	2.86
180.0	3.91	3.83	3.74	3.67	3.59	3.52	3.45	3.39	3.32	3.26	3.21	3.15	3.10	3.04	2.99	2.95	2.90	2.85	2.81	2.77
190.0	3.73	3.66	3.58	3.51	3.44	3.38	3.32	3.26	3.20	3.14	3.09	3.04	2.99	2.94	2.90	2.85	2.81	2.77	2.73	2.69

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 - 45.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	1.52	1.57	1.60	1.60	1.59	1.57	1.54	1.50	1.47	1.43	1.39	1.34	1.30	1.26	1.23	1.19	1.15	1.12	1.08	1.05
10.0	1.54	1.54	1.54	1.52	1.49	1.46	1.43	1.39	1.35	1.32	1.28	1.24	1.20	1.17	1.13	1.10	1.07	1.04	1.00	0.98
20.0	1.49	1.47	1.45	1.42	1.39	1.36	1.32	1.29	1.25	1.22	1.18	1.15	1.12	1.08	1.05	1.02	0.99	0.96	0.94	0.91
30.0	1.41	1.38	1.36	1.32	1.29	1.26	1.23	1.19	1.16	1.13	1.10	1.07	1.04	1.01	0.98	0.95	0.93	0.90	0.88	0.85
40.0	1.32	1.29	1.26	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	0.80
50.0	1.24	1.21	1.18	1.15	1.12	1.09	1.06	1.04	1.01	0.98	0.96	0.93	0.91	0.88	0.86	0.84	0.82	0.80	0.78	0.76
60.0	1.16	1.13	1.10	1.07	1.05	1.02	1.00	0.97	0.95	0.92	0.90	0.87	0.85	0.83	0.81	0.79	0.77	0.75	0.73	0.72
70.0	1.08	1.06	1.03	1.01	0.98	0.96	0.93	0.91	0.89	0.87	0.84	0.82	0.80	0.78	0.76	0.75	0.73	0.71	0.69	0.68
80.0	1.02	0.99	0.97	0.94	0.92	0.90	0.88	0.86	0.84	0.82	0.80	0.78	0.76	0.74	0.72	0.71	0.69	0.67	0.66	0.64
90.0	0.95	0.93	0.91	0.89	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	0.64	0.63	0.61
100.0	0.90	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	0.65	0.64	0.62	0.61	0.60	0.58
110.0	0.85	0.83	0.81	0.79	0.78	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	0.56
120.0	0.80	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	0.59	0.58	0.57	0.56	0.54	0.53
130.0	0.76	0.75	0.73	0.71	0.70	0.68	0.67	0.66	0.64	0.63	0.62	0.60	0.59	0.58	0.57	0.55	0.54	0.53	0.52	0.51
140.0	0.72	0.71	0.69	0.68	0.67	0.65	0.64	0.63	0.61	0.60	0.59	0.58	0.56	0.55	0.54	0.53	0.52	0.51	0.50	0.49
150.0	0.69	0.67	0.66	0.65	0.63	0.62	0.61	0.60	0.59	0.57	0.56	0.55	0.54	0.53	0.52	0.51	0.50	0.49	0.48	0.47
160.0	0.66	0.64	0.63	0.62	0.61	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
170.0	0.63	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	0.44
180.0	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	0.44	0.43	0.42
190.0	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	0.44	0.44	0.43	0.42	0.41	0.41

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

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 - 45.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	1.10	1.14	1.16	1.16	1.15	1.14	1.12	1.10	1.07	1.04	1.02	0.99	0.96	0.93	0.91	0.88	0.86	0.83	0.81	0.79
10.0	1.09	1.09	1.09	1.08	1.06	1.04	1.02	0.99	0.97	0.94	0.92	0.89	0.87	0.85	0.82	0.80	0.78	0.76	0.74	0.72
20.0	1.03	1.02	1.01	0.99	0.97	0.95	0.92	0.90	0.88	0.86	0.83	0.81	0.79	0.77	0.75	0.73	0.71	0.69	0.68	0.66
30.0	0.96	0.94	0.92	0.90	0.88	0.86	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	0.61
40.0	0.88	0.86	0.84	0.83	0.81	0.79	0.77	0.75	0.73	0.71	0.70	0.68	0.66	0.65	0.63	0.62	0.60	0.59	0.57	0.56
50.0	0.81	0.79	0.77	0.76	0.74	0.72	0.70	0.69	0.67	0.65	0.64	0.62	0.61	0.60	0.58	0.57	0.56	0.54	0.53	0.52
60.0	0.74	0.73	0.71	0.69	0.68	0.66	0.65	0.63	0.62	0.60	0.59	0.58	0.56	0.55	0.54	0.53	0.52	0.51	0.50	0.48
70.0	0.68	0.67	0.65	0.64	0.62	0.61	0.60	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
80.0	0.63	0.62	0.60	0.59	0.58	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
90.0	0.58	0.57	0.56	0.55	0.54	0.52	0.51	0.50	0.49	0.48	0.47	0.46	0.46	0.45	0.44	0.43	0.42	0.41	0.41	0.40
100.0	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	0.50	0.49	0.48	0.47	0.47	0.46	0.45	0.44	0.43	0.42	0.42	0.41	0.40	0.39	0.39	0.38	0.37	0.37	0.36	0.35
120.0	0.47	0.46	0.45	0.44	0.44	0.43	0.42	0.41	0.40	0.40	0.39	0.38	0.38	0.37	0.36	0.36	0.35	0.35	0.34	0.34
130.0	0.44	0.43	0.42	0.42	0.41	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	0.32	0.32
140.0	0.41	0.41	0.40	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
150.0	0.39	0.38	0.38	0.37	0.36	0.36	0.35	0.35	0.34	0.33	0.33	0.32	0.32	0.31	0.31	0.31	0.30	0.30	0.29	0.29
160.0	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	0.30	0.29	0.29	0.28	0.28	0.28
170.0	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	0.28	0.28	0.27	0.27	0.27	0.26
180.0	0.33	0.32	0.32	0.31	0.31	0.30	0.30	0.30	0.29	0.29	0.28	0.28	0.28	0.27	0.27	0.27	0.26	0.26	0.26	0.25
190.0	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	0.26	0.25	0.25	0.25	0.24	0.24

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*10C

NITRIC ACID CONC. - N - 0.50
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 45.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	14.22	14.02	13.67	13.22	12.72	12.20	11.67	11.15	10.65	10.16	9.70	9.27	8.86	8.47	8.11	7.76	7.44	7.14	6.86	6.60
10.0	13.29	12.88	12.42	11.93	11.43	10.94	10.46	10.00	9.56	9.14	8.75	8.37	8.02	7.69	7.38	7.09	6.81	6.55	6.31	6.08
20.0	12.13	11.67	11.20	10.74	10.28	9.84	9.42	9.02	8.64	8.28	7.94	7.62	7.31	7.03	6.76	6.51	6.27	6.05	5.84	5.64
30.0	10.98	10.54	10.11	9.69	9.28	8.90	8.53	8.18	7.85	7.54	7.25	6.97	6.71	6.46	6.23	6.01	5.80	5.61	5.42	5.25
40.0	9.94	9.54	9.15	8.78	8.43	8.09	7.77	7.47	7.18	6.91	6.66	6.42	6.19	5.97	5.77	5.58	5.40	5.23	5.07	4.91
50.0	9.02	8.66	8.32	8.00	7.69	7.39	7.12	6.85	6.60	6.37	6.15	5.94	5.74	5.55	5.37	5.20	5.05	4.90	4.75	4.62
60.0	8.22	7.90	7.60	7.32	7.05	6.79	6.55	6.32	6.10	5.90	5.70	5.52	5.34	5.18	5.02	4.88	4.74	4.60	4.48	4.36
70.0	7.52	7.25	6.98	6.73	6.50	6.27	6.06	5.86	5.67	5.49	5.32	5.15	5.00	4.86	4.72	4.59	4.46	4.34	4.23	4.13
80.0	6.92	6.67	6.44	6.22	6.02	5.82	5.63	5.46	5.29	5.13	4.98	4.83	4.70	4.57	4.45	4.33	4.22	4.12	4.01	3.92
90.0	6.39	6.18	5.97	5.78	5.60	5.42	5.26	5.10	4.95	4.81	4.68	4.55	4.43	4.32	4.21	4.10	4.00	3.91	3.82	3.74
100.0	5.93	5.74	5.56	5.39	5.23	5.08	4.93	4.79	4.66	4.53	4.42	4.30	4.19	4.09	3.99	3.90	3.81	3.73	3.65	3.57
110.0	5.52	5.36	5.20	5.05	4.90	4.77	4.64	4.52	4.40	4.29	4.18	4.08	3.98	3.89	3.80	3.72	3.64	3.56	3.49	3.42
120.0	5.17	5.02	4.88	4.75	4.62	4.50	4.38	4.27	4.17	4.07	3.97	3.88	3.79	3.71	3.63	3.56	3.48	3.42	3.35	3.29
130.0	4.85	4.72	4.60	4.48	4.36	4.26	4.15	4.05	3.96	3.87	3.78	3.70	3.62	3.55	3.48	3.41	3.34	3.28	3.22	3.16
140.0	4.58	4.46	4.35	4.24	4.14	4.04	3.95	3.86	3.77	3.69	3.62	3.54	3.47	3.40	3.34	3.28	3.22	3.16	3.10	3.05
150.0	4.33	4.22	4.12	4.03	3.93	3.85	3.76	3.68	3.61	3.54	3.47	3.40	3.33	3.27	3.21	3.16	3.10	3.05	3.00	2.95
160.0	4.11	4.01	3.92	3.84	3.75	3.67	3.60	3.53	3.46	3.39	3.33	3.27	3.21	3.15	3.10	3.04	2.99	2.95	2.90	2.85
170.0	3.91	3.82	3.74	3.66	3.59	3.52	3.45	3.38	3.32	3.26	3.20	3.15	3.09	3.04	2.99	2.94	2.90	2.85	2.81	2.77
180.0	3.73	3.65	3.58	3.51	3.44	3.38	3.32	3.26	3.20	3.14	3.09	3.04	2.99	2.94	2.89	2.85	2.81	2.76	2.72	2.68
190.0	3.57	3.50	3.43	3.37	3.31	3.25	3.19	3.14	3.09	3.03	2.99	2.94	2.89	2.85	2.81	2.76	2.72	2.68	2.65	2.61

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 - 45.00

URANIUM CONC-G/L	PLUTONIUM CONCENTRATION - 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
TRACE	4.07	3.53	3.14	2.83	2.58	2.38	2.20	2.05	1.92	1.81	1.70	1.61	1.53	1.45	1.38	1.32	1.26	1.21	1.16	1.11
10.0	2.97	2.70	2.48	2.29	2.13	1.99	1.87	1.76	1.67	1.58	1.50	1.43	1.36	1.30	1.25	1.19	1.14	1.10	1.06	1.02
20.0	2.38	2.21	2.07	1.94	1.83	1.72	1.63	1.55	1.48	1.41	1.34	1.28	1.23	1.18	1.13	1.09	1.05	1.01	0.97	0.94
30.0	2.00	1.89	1.78	1.69	1.60	1.52	1.45	1.38	1.32	1.27	1.22	1.17	1.12	1.08	1.04	1.00	0.97	0.93	0.90	0.87
40.0	1.74	1.65	1.57	1.49	1.42	1.36	1.30	1.25	1.20	1.15	1.11	1.07	1.03	0.99	0.96	0.93	0.90	0.87	0.84	0.81
50.0	1.53	1.46	1.40	1.34	1.29	1.23	1.19	1.14	1.10	1.06	1.02	0.99	0.95	0.92	0.89	0.86	0.84	0.81	0.78	0.76
60.0	1.38	1.32	1.27	1.22	1.17	1.13	1.09	1.05	1.01	0.98	0.95	0.92	0.89	0.86	0.83	0.81	0.78	0.76	0.74	0.72
70.0	1.25	1.20	1.16	1.11	1.08	1.04	1.00	0.97	0.94	0.91	0.88	0.85	0.83	0.80	0.78	0.76	0.73	0.71	0.69	0.68
80.0	1.14	1.10	1.06	1.03	0.99	0.96	0.93	0.90	0.87	0.85	0.82	0.80	0.78	0.75	0.73	0.71	0.69	0.67	0.66	0.64
90.0	1.05	1.02	0.98	0.95	0.92	0.90	0.87	0.84	0.82	0.79	0.77	0.75	0.73	0.71	0.69	0.67	0.65	0.64	0.62	0.61
100.0	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	0.67	0.65	0.64	0.62	0.61	0.59	0.58
110.0	0.91	0.88	0.86	0.83	0.81	0.79	0.77	0.74	0.72	0.71	0.69	0.67	0.65	0.64	0.62	0.60	0.59	0.58	0.56	0.55
120.0	0.85	0.83	0.80	0.78	0.76	0.74	0.72	0.70	0.69	0.67	0.65	0.64	0.62	0.60	0.59	0.58	0.56	0.55	0.54	0.52
130.0	0.80	0.78	0.76	0.74	0.72	0.70	0.68	0.67	0.65	0.63	0.62	0.60	0.59	0.58	0.56	0.55	0.54	0.52	0.51	0.50
140.0	0.75	0.73	0.72	0.70	0.68	0.66	0.65	0.63	0.62	0.60	0.59	0.58	0.56	0.55	0.54	0.52	0.51	0.50	0.49	0.48
150.0	0.71	0.70	0.68	0.66	0.65	0.63	0.62	0.60	0.59	0.57	0.56	0.55	0.54	0.52	0.51	0.50	0.49	0.48	0.47	0.46
160.0	0.68	0.66	0.64	0.63	0.62	0.60	0.59	0.57	0.56	0.55	0.54	0.53	0.51	0.50	0.49	0.48	0.47	0.46	0.45	0.44
170.0	0.64	0.63	0.61	0.60	0.59	0.57	0.56	0.55	0.54	0.53	0.51	0.50	0.49	0.48	0.47	0.46	0.45	0.44	0.43	0.42
180.0	0.61	0.60	0.59	0.57	0.56	0.55	0.54	0.53	0.51	0.50	0.49	0.48	0.47	0.46	0.45	0.44	0.43	0.43	0.42	0.41
190.0	0.59	0.57	0.56	0.55	0.54	0.53	0.51	0.50	0.49	0.48	0.47	0.46	0.45	0.45	0.44	0.43	0.42	0.41	0.40	0.39

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 - 45.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	2.99	2.60	2.32	2.10	1.92	1.77	1.64	1.54	1.44	1.36	1.29	1.22	1.16	1.11	1.06	1.01	0.97	0.93	0.90	0.87
10.0	2.15	1.96	1.80	1.67	1.56	1.46	1.38	1.30	1.23	1.17	1.12	1.07	1.02	0.98	0.94	0.90	0.87	0.84	0.81	0.78
20.0	1.70	1.58	1.48	1.39	1.31	1.25	1.18	1.13	1.08	1.03	0.99	0.95	0.91	0.88	0.84	0.82	0.79	0.76	0.74	0.71
30.0	1.41	1.33	1.26	1.19	1.14	1.08	1.04	0.99	0.95	0.91	0.88	0.85	0.82	0.79	0.76	0.74	0.72	0.70	0.68	0.66
40.0	1.20	1.14	1.09	1.04	1.00	0.96	0.92	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
50.0	1.05	1.00	0.96	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	0.61	0.59	0.58	0.56
60.0	0.93	0.89	0.86	0.83	0.80	0.77	0.75	0.72	0.70	0.68	0.66	0.64	0.62	0.61	0.59	0.58	0.56	0.55	0.53	0.52
70.0	0.83	0.80	0.77	0.75	0.73	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	0.50	0.49
80.0	0.75	0.73	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	0.50	0.49	0.48	0.47	0.46
90.0	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	0.49	0.48	0.47	0.46	0.45	0.44	0.43
100.0	0.63	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	0.41	0.41
110.0	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	0.41	0.41	0.40	0.39	0.38
120.0	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	0.41	0.40	0.39	0.38	0.38	0.37	0.37
130.0	0.50	0.49	0.48	0.47	0.46	0.45	0.44	0.43	0.42	0.41	0.41	0.40	0.39	0.38	0.38	0.37	0.37	0.36	0.35	0.35
140.0	0.47	0.46	0.45	0.44	0.43	0.42	0.41	0.41	0.40	0.39	0.38	0.38	0.37	0.37	0.36	0.35	0.35	0.34	0.34	0.33
150.0	0.44	0.43	0.42	0.41	0.41	0.40	0.39	0.38	0.38	0.37	0.36	0.36	0.35	0.35	0.34	0.34	0.33	0.33	0.32	0.32
160.0	0.41	0.41	0.40	0.39	0.38	0.38	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
170.0	0.39	0.38	0.38	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	0.30	0.29	0.29
180.0	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	0.30	0.29	0.29	0.29	0.28	0.28
190.0	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	0.28	0.28	0.28	0.27	0.27

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*10C

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 - 45.00

URANIUM CONC-G/L	PLUTONIUM CONCENTRATION - 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
TRACE	19.70	17.24	15.39	13.93	12.74	11.74	10.89	10.16	9.51	8.95	8.44	7.99	7.59	7.22	6.88	6.58	6.30	6.04	5.80	5.58
10.0	14.82	13.50	12.40	11.48	10.68	9.98	9.37	8.83	8.34	7.91	7.52	7.16	6.83	6.54	6.26	6.01	5.78	5.56	5.36	5.18
20.0	12.09	11.22	10.47	9.81	9.23	8.71	8.24	7.83	7.44	7.10	6.78	6.49	6.22	5.98	5.75	5.54	5.34	5.16	4.99	4.83
30.0	10.27	9.65	9.09	8.59	8.15	7.74	7.37	7.04	6.73	6.45	6.19	5.95	5.72	5.52	5.32	5.14	4.98	4.82	4.67	4.53
40.0	8.95	8.48	8.05	7.66	7.30	6.97	6.68	6.40	6.15	5.91	5.69	5.49	5.30	5.12	4.96	4.80	4.66	4.52	4.39	4.27
50.0	7.95	7.57	7.23	6.91	6.62	6.35	6.11	5.88	5.66	5.46	5.28	5.10	4.94	4.79	4.65	4.51	4.39	4.27	4.15	4.05
60.0	7.16	6.85	6.57	6.31	6.06	5.84	5.63	5.44	5.25	5.08	4.92	4.77	4.63	4.50	4.38	4.26	4.15	4.04	3.94	3.85
70.0	6.51	6.26	6.02	5.80	5.60	5.41	5.23	5.06	4.90	4.76	4.62	4.49	4.37	4.25	4.14	4.03	3.94	3.84	3.75	3.67
80.0	5.98	5.76	5.56	5.38	5.20	5.04	4.88	4.74	4.60	4.47	4.35	4.24	4.13	4.03	3.93	3.84	3.75	3.67	3.58	3.51
90.0	5.53	5.35	5.18	5.01	4.86	4.72	4.59	4.46	4.34	4.23	4.12	4.02	3.92	3.83	3.74	3.66	3.58	3.51	3.43	3.36
100.0	5.15	4.99	4.84	4.70	4.57	4.45	4.33	4.22	4.11	4.01	3.92	3.83	3.74	3.66	3.58	3.50	3.43	3.36	3.30	3.23
110.0	4.82	4.68	4.55	4.43	4.32	4.21	4.10	4.00	3.91	3.82	3.73	3.65	3.58	3.50	3.43	3.36	3.30	3.23	3.17	3.12
120.0	4.54	4.42	4.30	4.19	4.09	3.99	3.90	3.81	3.73	3.65	3.57	3.50	3.43	3.36	3.30	3.23	3.17	3.12	3.06	3.01
130.0	4.29	4.18	4.08	3.98	3.89	3.80	3.72	3.64	3.57	3.49	3.42	3.36	3.29	3.23	3.17	3.12	3.06	3.01	2.96	2.91
140.0	4.07	3.97	3.88	3.80	3.71	3.64	3.56	3.49	3.42	3.36	3.29	3.23	3.17	3.12	3.06	3.01	2.96	2.91	2.86	2.82
150.0	3.87	3.79	3.71	3.63	3.56	3.48	3.42	3.35	3.29	3.23	3.17	3.12	3.06	3.01	2.96	2.91	2.86	2.82	2.77	2.73
160.0	3.70	3.62	3.55	3.48	3.41	3.35	3.29	3.23	3.17	3.11	3.06	3.01	2.96	2.91	2.87	2.82	2.78	2.73	2.69	2.65
170.0	3.54	3.47	3.41	3.34	3.28	3.22	3.17	3.11	3.06	3.01	2.96	2.91	2.87	2.82	2.78	2.74	2.69	2.65	2.62	2.58
180.0	3.40	3.34	3.28	3.22	3.17	3.11	3.06	3.01	2.96	2.91	2.87	2.82	2.78	2.74	2.70	2.66	2.62	2.58	2.54	2.51
190.0	3.28	3.22	3.16	3.11	3.06	3.01	2.96	2.91	2.87	2.82	2.78	2.74	2.70	2.66	2.62	2.58	2.55	2.51	2.48	2.44

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 2.00
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 45.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	11.52	7.28	5.43	4.37	3.66	3.16	2.78	2.48	2.24	2.05	1.88	1.74	1.61	1.51	1.41	1.33	1.25	1.18	1.12	1.06
10.0	5.21	4.24	3.58	3.10	2.74	2.46	2.23	2.03	1.87	1.73	1.61	1.50	1.41	1.33	1.25	1.18	1.12	1.07	1.02	0.97
20.0	3.50	3.05	2.70	2.43	2.21	2.02	1.86	1.72	1.61	1.50	1.41	1.33	1.25	1.19	1.13	1.07	1.02	0.97	0.93	0.89
30.0	2.66	2.40	2.18	2.00	1.85	1.72	1.60	1.50	1.41	1.33	1.26	1.19	1.13	1.07	1.02	0.98	0.93	0.89	0.86	0.82
40.0	2.16	1.99	1.84	1.71	1.60	1.50	1.41	1.33	1.26	1.19	1.13	1.08	1.03	0.98	0.94	0.90	0.86	0.83	0.79	0.76
50.0	1.83	1.70	1.59	1.49	1.40	1.33	1.26	1.19	1.13	1.08	1.03	0.98	0.94	0.90	0.87	0.83	0.80	0.77	0.74	0.71
60.0	1.58	1.49	1.40	1.33	1.26	1.19	1.13	1.08	1.03	0.99	0.94	0.91	0.87	0.83	0.80	0.77	0.74	0.72	0.69	0.67
70.0	1.40	1.32	1.25	1.19	1.14	1.08	1.03	0.99	0.95	0.91	0.87	0.84	0.81	0.78	0.75	0.72	0.70	0.67	0.65	0.63
80.0	1.25	1.19	1.14	1.08	1.04	0.99	0.95	0.91	0.88	0.84	0.81	0.78	0.75	0.73	0.70	0.68	0.66	0.63	0.61	0.59
90.0	1.14	1.09	1.04	0.99	0.95	0.92	0.88	0.85	0.81	0.79	0.76	0.73	0.71	0.68	0.66	0.64	0.62	0.60	0.58	0.56
100.0	1.04	1.00	0.96	0.92	0.88	0.85	0.82	0.79	0.76	0.74	0.71	0.69	0.66	0.64	0.62	0.60	0.58	0.57	0.55	0.53
110.0	0.96	0.92	0.89	0.85	0.82	0.79	0.77	0.74	0.71	0.69	0.67	0.65	0.63	0.61	0.59	0.57	0.55	0.54	0.52	0.51
120.0	0.89	0.86	0.83	0.80	0.77	0.74	0.72	0.70	0.67	0.65	0.63	0.61	0.59	0.58	0.56	0.54	0.53	0.51	0.50	0.48
130.0	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	0.55	0.53	0.52	0.50	0.49	0.48	0.46
140.0	0.78	0.75	0.73	0.70	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
150.0	0.73	0.71	0.69	0.66	0.64	0.63	0.61	0.59	0.57	0.56	0.54	0.53	0.51	0.50	0.48	0.47	0.46	0.45	0.44	0.42
160.0	0.69	0.67	0.65	0.63	0.61	0.59	0.58	0.56	0.55	0.53	0.52	0.50	0.49	0.48	0.46	0.45	0.44	0.43	0.42	0.41
170.0	0.65	0.63	0.62	0.60	0.58	0.57	0.55	0.53	0.52	0.51	0.49	0.48	0.47	0.46	0.44	0.43	0.42	0.41	0.40	0.39
180.0	0.62	0.60	0.59	0.57	0.55	0.54	0.53	0.51	0.50	0.48	0.47	0.46	0.45	0.44	0.43	0.42	0.41	0.40	0.39	0.38
190.0	0.59	0.57	0.56	0.54	0.53	0.52	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	0.36

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 2.00
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 45.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	9.14	5.80	4.35	3.51	2.96	2.57	2.27	2.04	1.85	1.70	1.57	1.46	1.36	1.28	1.21	1.14	1.08	1.03	0.98	0.94
10.0	4.11	3.36	2.85	2.49	2.21	1.99	1.81	1.66	1.54	1.43	1.34	1.26	1.19	1.12	1.07	1.02	0.97	0.93	0.89	0.85
20.0	2.75	2.41	2.14	1.94	1.77	1.63	1.51	1.41	1.32	1.24	1.17	1.11	1.05	1.00	0.96	0.92	0.88	0.84	0.81	0.78
30.0	2.08	1.89	1.73	1.59	1.48	1.38	1.29	1.22	1.15	1.09	1.04	0.99	0.95	0.91	0.87	0.84	0.80	0.78	0.75	0.72
40.0	1.68	1.56	1.45	1.35	1.27	1.20	1.13	1.08	1.02	0.98	0.93	0.90	0.86	0.83	0.80	0.77	0.74	0.72	0.69	0.67
50.0	1.42	1.33	1.25	1.18	1.12	1.06	1.01	0.96	0.92	0.88	0.85	0.82	0.79	0.76	0.73	0.71	0.69	0.67	0.65	0.63
60.0	1.23	1.16	1.10	1.04	1.00	0.95	0.91	0.87	0.84	0.81	0.78	0.75	0.73	0.70	0.68	0.66	0.64	0.62	0.61	0.59
70.0	1.08	1.03	0.98	0.94	0.90	0.86	0.83	0.80	0.77	0.74	0.72	0.70	0.68	0.66	0.64	0.62	0.60	0.58	0.57	0.56
80.0	0.97	0.93	0.89	0.85	0.82	0.79	0.76	0.74	0.71	0.69	0.67	0.65	0.63	0.61	0.60	0.58	0.57	0.55	0.54	0.53
90.0	0.88	0.84	0.81	0.78	0.75	0.73	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
100.0	0.80	0.77	0.75	0.72	0.70	0.68	0.66	0.64	0.62	0.60	0.59	0.57	0.56	0.54	0.53	0.52	0.51	0.50	0.49	0.47
110.0	0.74	0.71	0.69	0.67	0.65	0.63	0.61	0.60	0.58	0.57	0.55	0.54	0.53	0.52	0.50	0.49	0.48	0.47	0.46	0.45
120.0	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	0.49	0.48	0.47	0.46	0.45	0.44	0.43
130.0	0.64	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	0.42	0.42
140.0	0.60	0.58	0.57	0.56	0.54	0.53	0.52	0.51	0.50	0.48	0.47	0.47	0.46	0.45	0.44	0.43	0.42	0.41	0.41	0.40
150.0	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	0.39
160.0	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	0.37
170.0	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	0.37	0.37	0.36
180.0	0.48	0.47	0.46	0.46	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	0.36	0.35	0.35
190.0	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	0.36	0.36	0.35	0.35	0.34	0.34

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*10C

NITRIC ACID CONC. - M - 2.00
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-N- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 45.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	22.27	16.15	13.19	11.33	10.04	9.08	8.32	7.70	7.18	6.74	6.37	6.04	5.74	5.48	5.25	5.04	4.85	4.67	4.51	4.36
10.0	12.87	11.15	9.93	9.00	8.26	7.66	7.16	6.73	6.36	6.03	5.74	5.49	5.25	5.04	4.85	4.68	4.52	4.37	4.23	4.10
20.0	9.81	8.92	8.20	7.62	7.13	6.71	6.34	6.02	5.74	5.49	5.26	5.05	4.86	4.69	4.52	4.38	4.24	4.11	3.99	3.88
30.0	8.14	7.58	7.10	6.69	6.33	6.01	5.73	5.48	5.26	5.05	4.86	4.69	4.53	4.38	4.25	4.12	4.00	3.89	3.78	3.68
40.0	7.06	6.66	6.31	6.00	5.73	5.48	5.26	5.05	4.87	4.70	4.54	4.39	4.26	4.13	4.01	3.90	3.79	3.69	3.60	3.51
50.0	6.29	5.99	5.72	5.47	5.25	5.05	4.87	4.70	4.54	4.40	4.26	4.14	4.02	3.91	3.80	3.71	3.61	3.52	3.44	3.36
60.0	5.71	5.47	5.25	5.05	4.87	4.70	4.55	4.40	4.27	4.15	4.03	3.92	3.81	3.72	3.62	3.53	3.45	3.37	3.29	3.22
70.0	5.24	5.05	4.87	4.70	4.55	4.41	4.28	4.15	4.04	3.93	3.82	3.73	3.63	3.55	3.46	3.38	3.31	3.23	3.16	3.10
80.0	4.87	4.70	4.55	4.41	4.28	4.16	4.04	3.93	3.83	3.73	3.64	3.55	3.47	3.39	3.32	3.24	3.18	3.11	3.05	2.98
90.0	4.55	4.41	4.28	4.16	4.05	3.94	3.84	3.74	3.65	3.56	3.48	3.40	3.33	3.26	3.19	3.12	3.06	3.00	2.94	2.88
100.0	4.29	4.17	4.05	3.95	3.84	3.75	3.66	3.57	3.49	3.41	3.34	3.27	3.20	3.13	3.07	3.01	2.95	2.89	2.84	2.78
110.0	4.06	3.95	3.85	3.76	3.67	3.58	3.50	3.42	3.35	3.28	3.21	3.14	3.08	3.02	2.96	2.90	2.85	2.80	2.74	2.70
120.0	3.86	3.76	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	2.66	2.61
130.0	3.68	3.59	3.51	3.44	3.36	3.29	3.23	3.16	3.10	3.04	2.98	2.93	2.87	2.82	2.77	2.72	2.67	2.62	2.58	2.54
140.0	3.52	3.45	3.37	3.30	3.24	3.17	3.11	3.05	2.99	2.94	2.88	2.83	2.78	2.73	2.68	2.64	2.59	2.55	2.51	2.46
150.0	3.38	3.31	3.24	3.18	3.12	3.06	3.00	2.95	2.89	2.84	2.79	2.74	2.69	2.65	2.60	2.56	2.52	2.48	2.44	2.40
160.0	3.25	3.19	3.13	3.07	3.01	2.96	2.90	2.85	2.80	2.75	2.71	2.66	2.61	2.57	2.53	2.49	2.45	2.41	2.37	2.33
170.0	3.14	3.08	3.02	2.97	2.91	2.86	2.81	2.76	2.72	2.67	2.63	2.58	2.54	2.50	2.46	2.42	2.38	2.35	2.31	2.27
180.0	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	2.43	2.39	2.36	2.32	2.29	2.25	2.22
190.0	2.93	2.88	2.83	2.78	2.74	2.69	2.65	2.60	2.56	2.52	2.48	2.44	2.41	2.37	2.33	2.30	2.26	2.23	2.20	2.16

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - N - 3.00
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-N- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 45.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	19.85	9.13	6.11	4.63	3.73	3.13	2.70	2.37	2.11	1.90	1.72	1.58	1.45	1.35	1.25	1.17	1.10	1.03	0.97	0.92
10.0	6.34	4.77	3.84	3.21	2.76	2.42	2.15	1.94	1.76	1.61	1.48	1.37	1.28	1.19	1.12	1.05	0.99	0.94	0.89	0.84
20.0	3.94	3.29	2.83	2.48	2.20	1.98	1.80	1.64	1.51	1.40	1.30	1.22	1.14	1.07	1.01	0.95	0.90	0.86	0.81	0.78
30.0	2.89	2.53	2.25	2.02	1.83	1.68	1.54	1.43	1.33	1.24	1.16	1.09	1.03	0.97	0.92	0.87	0.83	0.79	0.75	0.72
40.0	2.30	2.06	1.87	1.71	1.57	1.46	1.35	1.26	1.18	1.11	1.05	0.99	0.94	0.89	0.85	0.81	0.77	0.73	0.70	0.67
50.0	1.91	1.75	1.61	1.49	1.38	1.29	1.21	1.13	1.07	1.01	0.96	0.91	0.86	0.82	0.78	0.75	0.71	0.68	0.65	0.63
60.0	1.64	1.51	1.41	1.31	1.23	1.16	1.09	1.03	0.97	0.92	0.88	0.84	0.80	0.76	0.73	0.70	0.67	0.64	0.61	0.59
70.0	1.43	1.34	1.25	1.18	1.11	1.05	0.99	0.94	0.89	0.85	0.81	0.77	0.74	0.71	0.68	0.65	0.63	0.60	0.58	0.56
80.0	1.28	1.20	1.13	1.07	1.01	0.96	0.91	0.87	0.83	0.79	0.75	0.72	0.69	0.66	0.64	0.61	0.59	0.57	0.55	0.53
90.0	1.15	1.09	1.03	0.98	0.93	0.88	0.84	0.80	0.77	0.74	0.71	0.68	0.65	0.62	0.60	0.58	0.56	0.54	0.52	0.50
100.0	1.05	0.99	0.95	0.90	0.86	0.82	0.78	0.75	0.72	0.69	0.66	0.64	0.61	0.59	0.57	0.55	0.53	0.51	0.49	0.47
110.0	0.96	0.92	0.87	0.83	0.80	0.76	0.73	0.70	0.67	0.65	0.62	0.60	0.58	0.56	0.54	0.52	0.50	0.48	0.47	0.45
120.0	0.89	0.85	0.81	0.78	0.75	0.72	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
130.0	0.83	0.79	0.76	0.73	0.70	0.67	0.65	0.62	0.60	0.58	0.56	0.54	0.52	0.50	0.49	0.47	0.45	0.44	0.43	0.41
140.0	0.77	0.74	0.71	0.69	0.66	0.64	0.61	0.59	0.57	0.55	0.53	0.51	0.50	0.48	0.46	0.45	0.43	0.42	0.41	0.40
150.0	0.73	0.70	0.67	0.65	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
160.0	0.69	0.66	0.64	0.61	0.59	0.57	0.55	0.53	0.52	0.50	0.48	0.47	0.45	0.44	0.42	0.41	0.40	0.39	0.38	0.36
170.0	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	0.42	0.41	0.39	0.38	0.37	0.36	0.35
180.0	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	0.34
190.0	0.58	0.56	0.55	0.53	0.51	0.50	0.48	0.46	0.45	0.44	0.42	0.41	0.40	0.39	0.38	0.37	0.35	0.34	0.33	0.33

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 - 45.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	17.84	8.26	5.57	4.25	3.45	2.92	2.53	2.24	2.01	1.82	1.67	1.54	1.43	1.33	1.25	1.18	1.11	1.06	1.01	0.96
10.0	5.73	4.34	3.52	2.97	2.57	2.27	2.04	1.85	1.69	1.56	1.45	1.35	1.27	1.19	1.13	1.07	1.02	0.97	0.93	0.89
20.0	3.59	3.02	2.61	2.31	2.07	1.87	1.71	1.58	1.47	1.37	1.28	1.21	1.14	1.08	1.03	0.98	0.94	0.90	0.86	0.83
30.0	2.65	2.34	2.09	1.90	1.74	1.60	1.48	1.39	1.30	1.22	1.16	1.10	1.04	0.99	0.95	0.91	0.87	0.84	0.80	0.78
40.0	2.12	1.92	1.76	1.62	1.50	1.40	1.31	1.24	1.17	1.11	1.05	1.00	0.96	0.92	0.88	0.85	0.81	0.78	0.76	0.73
50.0	1.78	1.64	1.52	1.42	1.33	1.25	1.18	1.12	1.07	1.02	0.97	0.93	0.89	0.86	0.82	0.79	0.77	0.74	0.72	0.69
60.0	1.54	1.43	1.34	1.27	1.20	1.13	1.08	1.03	0.98	0.94	0.90	0.87	0.83	0.80	0.77	0.75	0.72	0.70	0.68	0.66
70.0	1.36	1.28	1.21	1.15	1.09	1.04	0.99	0.95	0.91	0.88	0.84	0.81	0.78	0.76	0.73	0.71	0.69	0.67	0.65	0.63
80.0	1.22	1.16	1.10	1.05	1.00	0.96	0.92	0.88	0.85	0.82	0.79	0.77	0.74	0.72	0.70	0.68	0.66	0.64	0.62	0.61
90.0	1.11	1.06	1.01	0.97	0.93	0.89	0.86	0.83	0.80	0.77	0.75	0.73	0.70	0.68	0.66	0.65	0.63	0.61	0.60	0.58
100.0	1.02	0.98	0.94	0.90	0.87	0.84	0.81	0.78	0.76	0.73	0.71	0.69	0.67	0.65	0.64	0.62	0.60	0.59	0.58	0.56
110.0	0.95	0.91	0.88	0.85	0.82	0.79	0.77	0.74	0.72	0.70	0.68	0.66	0.64	0.63	0.61	0.60	0.58	0.57	0.56	0.54
120.0	0.89	0.86	0.83	0.80	0.77	0.75	0.73	0.71	0.69	0.67	0.65	0.63	0.62	0.60	0.59	0.58	0.56	0.55	0.54	0.53
130.0	0.84	0.81	0.78	0.76	0.74	0.72	0.70	0.68	0.66	0.64	0.63	0.61	0.60	0.58	0.57	0.56	0.54	0.53	0.52	0.51
140.0	0.79	0.77	0.74	0.72	0.70	0.68	0.67	0.65	0.63	0.62	0.60	0.59	0.58	0.56	0.55	0.54	0.53	0.52	0.51	0.50
150.0	0.75	0.73	0.71	0.69	0.67	0.66	0.64	0.62	0.61	0.60	0.58	0.57	0.56	0.55	0.53	0.52	0.51	0.50	0.49	0.49
160.0	0.72	0.70	0.68	0.66	0.65	0.63	0.62	0.60	0.59	0.58	0.56	0.55	0.54	0.53	0.52	0.51	0.50	0.49	0.48	0.47
170.0	0.69	0.67	0.65	0.64	0.62	0.61	0.60	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
180.0	0.66	0.65	0.63	0.62	0.60	0.59	0.58	0.57	0.55	0.54	0.53	0.52	0.51	0.50	0.50	0.49	0.48	0.47	0.46	0.46
190.0	0.64	0.62	0.61	0.60	0.58	0.57	0.56	0.55	0.54	0.53	0.52	0.51	0.50	0.49	0.48	0.48	0.47	0.46	0.45	0.45

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*ICC

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 - 45.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	22.06	13.74	10.83	9.20	8.12	7.33	6.72	6.23	5.83	5.49	5.19	4.93	4.71	4.50	4.32	4.15	4.00	3.86	3.73	3.61
10.0	11.09	9.38	8.25	7.44	6.82	6.32	5.90	5.55	5.25	4.99	4.76	4.55	4.36	4.20	4.04	3.90	3.77	3.65	3.53	3.43
20.0	8.39	7.55	6.91	6.40	5.98	5.62	5.31	5.05	4.81	4.60	4.41	4.24	4.08	3.94	3.81	3.68	3.57	3.46	3.36	3.27
30.0	7.00	6.48	6.05	5.68	5.37	5.10	4.86	4.65	4.46	4.28	4.12	3.98	3.84	3.72	3.60	3.49	3.39	3.30	3.21	3.12
40.0	6.12	5.75	5.43	5.16	4.91	4.70	4.50	4.33	4.17	4.02	3.88	3.76	3.64	3.53	3.43	3.33	3.24	3.15	3.07	3.00
50.0	5.49	5.21	4.97	4.75	4.55	4.37	4.21	4.06	3.92	3.79	3.67	3.56	3.46	3.36	3.27	3.18	3.10	3.02	2.95	2.88
60.0	5.02	4.80	4.59	4.41	4.25	4.10	3.96	3.83	3.71	3.60	3.49	3.39	3.30	3.21	3.13	3.05	2.98	2.91	2.84	2.77
70.0	4.64	4.46	4.29	4.14	4.00	3.87	3.75	3.63	3.53	3.43	3.33	3.24	3.16	3.08	3.01	2.93	2.86	2.80	2.74	2.68
80.0	4.33	4.18	4.04	3.90	3.78	3.67	3.56	3.46	3.36	3.27	3.19	3.11	3.03	2.96	2.89	2.83	2.76	2.70	2.64	2.59
90.0	4.07	3.94	3.82	3.70	3.59	3.49	3.40	3.31	3.22	3.14	3.06	2.99	2.92	2.85	2.79	2.73	2.67	2.61	2.56	2.50
100.0	3.85	3.74	3.63	3.52	3.43	3.34	3.25	3.17	3.09	3.02	2.95	2.88	2.81	2.75	2.69	2.64	2.58	2.53	2.48	2.43
110.0	3.66	3.56	3.46	3.37	3.28	3.20	3.12	3.05	2.97	2.91	2.84	2.78	2.72	2.66	2.61	2.55	2.50	2.45	2.40	2.36
120.0	3.49	3.40	3.31	3.23	3.15	3.07	3.00	2.93	2.87	2.80	2.74	2.69	2.63	2.58	2.52	2.47	2.43	2.38	2.33	2.29
130.0	3.34	3.26	3.18	3.10	3.03	2.96	2.90	2.83	2.77	2.71	2.66	2.60	2.55	2.50	2.45	2.40	2.36	2.31	2.27	2.23
140.0	3.21	3.13	3.06	2.99	2.92	2.86	2.80	2.74	2.68	2.63	2.57	2.52	2.47	2.43	2.38	2.33	2.29	2.25	2.21	2.17
150.0	3.09	3.02	2.95	2.89	2.82	2.76	2.71	2.65	2.60	2.55	2.50	2.45	2.40	2.36	2.31	2.27	2.23	2.19	2.15	2.11
160.0	2.98	2.91	2.85	2.79	2.73	2.68	2.62	2.57	2.52	2.47	2.43	2.38	2.34	2.29	2.25	2.21	2.17	2.14	2.10	2.06
170.0	2.88	2.82	2.76	2.70	2.65	2.60	2.55	2.50	2.45	2.40	2.36	2.32	2.27	2.23	2.19	2.16	2.12	2.08	2.05	2.01
180.0	2.78	2.73	2.67	2.62	2.57	2.52	2.47	2.43	2.38	2.34	2.30	2.26	2.22	2.18	2.14	2.10	2.07	2.03	2.00	1.97
190.0	2.70	2.65	2.60	2.55	2.50	2.45	2.41	2.36	2.32	2.28	2.24	2.20	2.16	2.13	2.09	2.05	2.02	1.99	1.95	1.92

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 4.00
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 45.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	25.41	8.96	5.66	4.17	3.30	2.74	2.33	2.03	1.80	1.61	1.46	1.33	1.22	1.12	1.04	0.97	0.91	0.85	0.80	0.75
10.0	6.64	4.68	3.63	2.96	2.50	2.16	1.90	1.70	1.53	1.39	1.27	1.17	1.09	1.01	0.94	0.88	0.83	0.78	0.74	0.70
20.0	4.02	3.23	2.70	2.31	2.02	1.79	1.61	1.46	1.33	1.22	1.13	1.05	0.98	0.92	0.86	0.81	0.76	0.72	0.68	0.65
30.0	2.92	2.48	2.15	1.90	1.70	1.53	1.40	1.28	1.18	1.09	1.02	0.95	0.89	0.84	0.79	0.74	0.70	0.67	0.63	0.60
40.0	2.30	2.02	1.80	1.62	1.47	1.34	1.23	1.14	1.06	0.99	0.93	0.87	0.82	0.77	0.73	0.69	0.66	0.62	0.59	0.57
50.0	1.91	1.71	1.54	1.41	1.29	1.19	1.11	1.03	0.96	0.90	0.85	0.80	0.76	0.72	0.68	0.64	0.61	0.58	0.56	0.53
60.0	1.63	1.48	1.35	1.25	1.15	1.07	1.00	0.94	0.88	0.83	0.78	0.74	0.70	0.67	0.63	0.60	0.58	0.55	0.53	0.50
70.0	1.42	1.31	1.21	1.12	1.04	0.98	0.92	0.86	0.81	0.77	0.73	0.69	0.66	0.62	0.59	0.57	0.54	0.52	0.50	0.48
80.0	1.26	1.17	1.09	1.02	0.95	0.90	0.84	0.80	0.75	0.71	0.68	0.65	0.61	0.59	0.56	0.54	0.51	0.49	0.47	0.45
90.0	1.14	1.06	0.99	0.93	0.88	0.83	0.78	0.74	0.70	0.67	0.64	0.61	0.58	0.55	0.53	0.51	0.49	0.47	0.45	0.43
100.0	1.04	0.97	0.91	0.86	0.81	0.77	0.73	0.69	0.66	0.63	0.60	0.57	0.55	0.52	0.50	0.48	0.46	0.44	0.43	0.41
110.0	0.95	0.90	0.84	0.80	0.76	0.72	0.68	0.65	0.62	0.59	0.56	0.54	0.52	0.50	0.48	0.46	0.44	0.42	0.41	0.39
120.0	0.88	0.83	0.79	0.75	0.71	0.67	0.64	0.61	0.58	0.56	0.53	0.51	0.49	0.47	0.45	0.44	0.42	0.40	0.39	0.37
130.0	0.82	0.77	0.73	0.70	0.66	0.63	0.61	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
140.0	0.76	0.73	0.69	0.66	0.63	0.60	0.57	0.55	0.53	0.50	0.48	0.46	0.45	0.43	0.41	0.40	0.38	0.37	0.36	0.34
150.0	0.72	0.68	0.65	0.62	0.59	0.57	0.54	0.52	0.50	0.48	0.46	0.44	0.43	0.41	0.40	0.38	0.37	0.35	0.34	0.33
160.0	0.68	0.64	0.62	0.59	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
170.0	0.64	0.61	0.58	0.56	0.54	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
180.0	0.61	0.58	0.56	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	0.32	0.31	0.30
190.0	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	0.34	0.33	0.31	0.30	0.29	0.28

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 4.00
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 45.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	26.99	9.60	6.12	4.54	3.64	3.04	2.62	2.30	2.06	1.86	1.70	1.56	1.45	1.35	1.26	1.19	1.12	1.06	1.01	0.96
10.0	7.18	5.11	4.00	3.30	2.81	2.45	2.18	1.96	1.79	1.64	1.52	1.41	1.32	1.24	1.17	1.10	1.05	1.00	0.95	0.91
20.0	4.43	3.59	3.03	2.62	2.32	2.08	1.88	1.72	1.59	1.47	1.38	1.29	1.21	1.15	1.09	1.03	0.99	0.94	0.90	0.87
30.0	3.28	2.81	2.47	2.20	1.99	1.81	1.67	1.54	1.44	1.35	1.27	1.19	1.13	1.07	1.02	0.98	0.94	0.90	0.86	0.83
40.0	2.64	2.34	2.10	1.91	1.75	1.62	1.50	1.41	1.32	1.24	1.18	1.12	1.06	1.01	0.97	0.93	0.89	0.86	0.83	0.80
50.0	2.23	2.02	1.85	1.70	1.58	1.47	1.38	1.30	1.23	1.16	1.10	1.05	1.01	0.96	0.92	0.89	0.85	0.82	0.80	0.77
60.0	1.95	1.79	1.65	1.54	1.44	1.35	1.28	1.21	1.15	1.09	1.04	1.00	0.96	0.92	0.88	0.85	0.82	0.80	0.77	0.74
70.0	1.74	1.61	1.51	1.41	1.33	1.26	1.20	1.14	1.08	1.04	0.99	0.95	0.92	0.88	0.85	0.82	0.80	0.77	0.75	0.72
80.0	1.58	1.48	1.39	1.31	1.25	1.18	1.13	1.08	1.03	0.99	0.95	0.91	0.88	0.85	0.82	0.80	0.77	0.75	0.73	0.71
90.0	1.46	1.37	1.30	1.23	1.17	1.12	1.07	1.03	0.99	0.95	0.91	0.88	0.85	0.82	0.80	0.77	0.75	0.73	0.71	0.69
100.0	1.36	1.28	1.22	1.16	1.11	1.07	1.02	0.98	0.95	0.91	0.88	0.85	0.83	0.80	0.78	0.75	0.73	0.71	0.70	0.68
110.0	1.27	1.21	1.16	1.11	1.06	1.02	0.98	0.95	0.91	0.88	0.86	0.83	0.80	0.78	0.76	0.74	0.72	0.70	0.68	0.67
120.0	1.21	1.15	1.10	1.06	1.02	0.98	0.95	0.92	0.89	0.86	0.83	0.81	0.78	0.76	0.74	0.72	0.71	0.69	0.67	0.66
130.0	1.15	1.10	1.06	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	0.68	0.66	0.65
140.0	1.10	1.06	1.02	0.99	0.95	0.92	0.89	0.87	0.84	0.82	0.80	0.77	0.75	0.74	0.72	0.70	0.69	0.67	0.66	0.64
150.0	1.06	1.02	0.99	0.96	0.93	0.90	0.87	0.85	0.82	0.80	0.78	0.76	0.74	0.73	0.71	0.69	0.68	0.66	0.65	0.64
160.0	1.03	0.99	0.96	0.93	0.90	0.88	0.85	0.83	0.81	0.79	0.77	0.75	0.73	0.72	0.70	0.69	0.67	0.66	0.65	0.63
170.0	1.00	0.97	0.94	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	0.67	0.65	0.64	0.63
180.0	0.97	0.94	0.92	0.89	0.87	0.84	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
190.0	0.95	0.92	0.90	0.88	0.85	0.83	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

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*10C

NITRIC ACID CONC. - M - 4.00
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 45.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	20.71	11.60	9.03	7.65	6.75	6.10	5.60	5.19	4.86	4.58	4.34	4.12	3.93	3.77	3.61	3.48	3.35	3.23	3.12	3.02
10.0	9.86	8.15	7.10	6.36	5.81	5.37	5.01	4.71	4.45	4.22	4.02	3.85	3.69	3.54	3.41	3.29	3.18	3.08	2.98	2.89
20.0	7.50	6.66	6.04	5.56	5.17	4.84	4.57	4.33	4.12	3.93	3.77	3.62	3.48	3.35	3.24	3.13	3.03	2.94	2.85	2.77
30.0	6.30	5.77	5.34	4.99	4.70	4.44	4.22	4.03	3.85	3.69	3.55	3.42	3.30	3.19	3.09	2.99	2.90	2.82	2.74	2.66
40.0	5.53	5.15	4.84	4.56	4.33	4.12	3.94	3.77	3.63	3.49	3.36	3.25	3.14	3.04	2.95	2.86	2.78	2.71	2.63	2.57
50.0	4.99	4.70	4.45	4.23	4.03	3.86	3.70	3.56	3.43	3.31	3.20	3.10	3.00	2.91	2.83	2.75	2.68	2.61	2.54	2.48
60.0	4.57	4.34	4.13	3.95	3.79	3.64	3.50	3.38	3.26	3.16	3.06	2.97	2.88	2.80	2.72	2.65	2.58	2.52	2.45	2.39
70.0	4.24	4.05	3.88	3.72	3.58	3.45	3.33	3.22	3.12	3.02	2.93	2.85	2.77	2.69	2.62	2.56	2.49	2.43	2.37	2.32
80.0	3.97	3.81	3.66	3.52	3.40	3.28	3.18	3.08	2.98	2.90	2.82	2.74	2.67	2.60	2.53	2.47	2.41	2.35	2.30	2.25
90.0	3.74	3.60	3.47	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	2.34	2.28	2.23	2.18
100.0	3.55	3.42	3.31	3.20	3.10	3.01	2.92	2.84	2.76	2.69	2.62	2.55	2.49	2.43	2.37	2.32	2.27	2.22	2.17	2.12
110.0	3.38	3.27	3.16	3.07	2.98	2.89	2.81	2.74	2.66	2.60	2.53	2.47	2.41	2.36	2.30	2.25	2.20	2.15	2.11	2.06
120.0	3.23	3.13	3.03	2.95	2.86	2.78	2.71	2.64	2.57	2.51	2.45	2.39	2.34	2.29	2.24	2.19	2.14	2.10	2.05	2.01
130.0	3.09	3.00	2.92	2.84	2.76	2.69	2.62	2.56	2.49	2.43	2.38	2.32	2.27	2.22	2.17	2.13	2.08	2.04	2.00	1.96
140.0	2.98	2.89	2.81	2.74	2.67	2.60	2.54	2.48	2.42	2.36	2.31	2.26	2.21	2.16	2.12	2.07	2.03	1.99	1.95	1.91
150.0	2.87	2.79	2.72	2.65	2.58	2.52	2.46	2.40	2.35	2.30	2.25	2.20	2.15	2.11	2.06	2.02	1.98	1.94	1.90	1.87
160.0	2.77	2.70	2.63	2.57	2.50	2.45	2.39	2.34	2.28	2.23	2.19	2.14	2.10	2.05	2.01	1.97	1.93	1.90	1.86	1.83
170.0	2.68	2.61	2.55	2.49	2.43	2.38	2.32	2.27	2.22	2.18	2.13	2.09	2.04	2.00	1.96	1.93	1.89	1.85	1.82	1.78
180.0	2.60	2.54	2.48	2.42	2.36	2.31	2.26	2.21	2.17	2.12	2.08	2.04	2.00	1.96	1.92	1.88	1.85	1.81	1.78	1.75
190.0	2.52	2.46	2.41	2.35	2.30	2.25	2.20	2.16	2.11	2.07	2.03	1.99	1.95	1.91	1.88	1.84	1.81	1.77	1.74	1.71

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 5.00
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-N- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 45.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	26.46	7.79	4.79	3.48	2.74	2.26	1.92	1.66	1.47	1.31	1.18	1.08	0.98	0.91	0.84	0.78	0.73	0.68	0.64	0.60
10.0	6.52	4.31	3.23	2.59	2.15	1.84	1.61	1.42	1.28	1.15	1.05	0.97	0.89	0.83	0.77	0.72	0.67	0.63	0.59	0.56
20.0	3.94	3.03	2.46	2.07	1.78	1.56	1.39	1.25	1.13	1.03	0.95	0.88	0.81	0.76	0.71	0.66	0.62	0.59	0.56	0.53
30.0	2.86	2.35	1.99	1.72	1.52	1.35	1.22	1.11	1.01	0.93	0.86	0.80	0.75	0.70	0.66	0.62	0.58	0.55	0.52	0.49
40.0	2.25	1.92	1.67	1.48	1.32	1.20	1.09	1.00	0.92	0.85	0.79	0.74	0.69	0.65	0.61	0.58	0.55	0.52	0.49	0.47
50.0	1.87	1.63	1.45	1.30	1.18	1.07	0.98	0.91	0.84	0.78	0.73	0.69	0.64	0.61	0.57	0.54	0.51	0.49	0.46	0.44
60.0	1.60	1.42	1.28	1.16	1.06	0.97	0.90	0.83	0.78	0.73	0.68	0.64	0.60	0.57	0.54	0.51	0.48	0.46	0.44	0.42
70.0	1.39	1.26	1.14	1.04	0.96	0.89	0.83	0.77	0.72	0.67	0.63	0.60	0.57	0.53	0.51	0.48	0.46	0.44	0.42	0.40
80.0	1.24	1.13	1.03	0.95	0.88	0.82	0.76	0.71	0.67	0.63	0.59	0.56	0.53	0.50	0.48	0.46	0.43	0.41	0.40	0.38
90.0	1.12	1.02	0.94	0.87	0.81	0.76	0.71	0.67	0.63	0.59	0.56	0.53	0.50	0.48	0.45	0.43	0.41	0.39	0.38	0.36
100.0	1.02	0.94	0.87	0.81	0.76	0.71	0.66	0.63	0.59	0.56	0.53	0.50	0.48	0.45	0.43	0.41	0.39	0.38	0.36	0.34
110.0	0.93	0.87	0.81	0.75	0.70	0.66	0.62	0.59	0.56	0.53	0.50	0.48	0.45	0.43	0.41	0.39	0.38	0.36	0.34	0.33
120.0	0.86	0.80	0.75	0.70	0.66	0.62	0.59	0.56	0.53	0.50	0.48	0.45	0.43	0.41	0.39	0.38	0.36	0.34	0.33	0.32
130.0	0.80	0.75	0.70	0.66	0.62	0.59	0.56	0.53	0.50	0.47	0.45	0.43	0.41	0.39	0.38	0.36	0.34	0.33	0.32	0.30
140.0	0.75	0.70	0.66	0.62	0.59	0.56	0.53	0.50	0.48	0.45	0.43	0.41	0.39	0.38	0.36	0.34	0.33	0.32	0.30	0.29
150.0	0.70	0.66	0.62	0.59	0.56	0.53	0.50	0.48	0.45	0.43	0.41	0.39	0.38	0.36	0.34	0.33	0.32	0.30	0.29	0.28
160.0	0.66	0.62	0.59	0.56	0.53	0.50	0.48	0.45	0.43	0.41	0.39	0.38	0.36	0.34	0.33	0.32	0.30	0.29	0.28	0.27
170.0	0.63	0.59	0.56	0.53	0.50	0.48	0.46	0.43	0.41	0.39	0.38	0.36	0.35	0.33	0.32	0.30	0.29	0.28	0.27	0.26
180.0	0.59	0.56	0.53	0.51	0.48	0.46	0.44	0.42	0.40	0.38	0.36	0.35	0.33	0.32	0.31	0.29	0.28	0.27	0.26	0.25
190.0	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	0.31	0.29	0.28	0.27	0.26	0.25	0.24

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 - 45.00

URANIUM CONC-G/L	PLUTONIUM CONCENTRATION - 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
TRACE	34.27	10.20	6.33	4.66	3.70	3.08	2.65	2.32	2.07	1.87	1.70	1.57	1.45	1.35	1.27	1.19	1.12	1.06	1.01	0.96
10.0	8.71	5.82	4.41	3.57	3.01	2.60	2.30	2.06	1.86	1.70	1.57	1.46	1.36	1.27	1.20	1.13	1.07	1.02	0.97	0.93
20.0	5.44	4.22	3.47	2.95	2.57	2.28	2.05	1.86	1.71	1.58	1.47	1.37	1.29	1.21	1.15	1.09	1.04	0.99	0.95	0.91
30.0	4.07	3.38	2.90	2.54	2.27	2.04	1.86	1.71	1.59	1.48	1.38	1.30	1.23	1.16	1.10	1.05	1.00	0.96	0.92	0.89
40.0	3.32	2.87	2.53	2.26	2.05	1.87	1.72	1.60	1.49	1.40	1.32	1.24	1.18	1.12	1.07	1.02	0.98	0.94	0.90	0.87
50.0	2.85	2.52	2.26	2.06	1.88	1.74	1.62	1.51	1.42	1.34	1.26	1.20	1.14	1.09	1.04	1.00	0.96	0.92	0.89	0.86
60.0	2.52	2.27	2.07	1.90	1.76	1.64	1.53	1.44	1.36	1.29	1.22	1.16	1.11	1.06	1.02	0.98	0.94	0.91	0.88	0.85
70.0	2.29	2.09	1.92	1.78	1.66	1.55	1.46	1.38	1.31	1.24	1.19	1.13	1.09	1.04	1.00	0.96	0.93	0.90	0.87	0.84
80.0	2.11	1.95	1.81	1.69	1.58	1.49	1.41	1.34	1.27	1.21	1.16	1.11	1.07	1.03	0.99	0.95	0.92	0.89	0.86	0.84
90.0	1.98	1.84	1.72	1.61	1.52	1.44	1.36	1.30	1.24	1.19	1.14	1.09	1.05	1.01	0.98	0.95	0.92	0.89	0.86	0.84
100.0	1.87	1.75	1.64	1.55	1.47	1.40	1.33	1.27	1.22	1.17	1.12	1.08	1.04	1.01	0.97	0.94	0.92	0.89	0.86	0.84
110.0	1.79	1.68	1.59	1.50	1.43	1.36	1.30	1.25	1.20	1.15	1.11	1.07	1.04	1.00	0.97	0.94	0.92	0.89	0.87	0.85
120.0	1.72	1.63	1.54	1.47	1.40	1.34	1.28	1.23	1.19	1.14	1.11	1.07	1.04	1.00	0.97	0.95	0.92	0.90	0.87	0.85
130.0	1.67	1.59	1.51	1.44	1.38	1.32	1.27	1.22	1.18	1.14	1.10	1.07	1.04	1.01	0.98	0.95	0.93	0.91	0.88	0.86
140.0	1.63	1.56	1.49	1.42	1.36	1.31	1.26	1.22	1.18	1.14	1.11	1.07	1.04	1.01	0.99	0.96	0.94	0.92	0.90	0.88
150.0	1.61	1.53	1.47	1.41	1.36	1.31	1.26	1.22	1.18	1.15	1.11	1.08	1.05	1.02	1.00	0.98	0.95	0.93	0.91	0.89
160.0	1.59	1.52	1.46	1.40	1.35	1.31	1.26	1.22	1.19	1.15	1.12	1.09	1.07	1.04	1.01	0.99	0.97	0.95	0.93	0.91
170.0	1.57	1.51	1.46	1.40	1.36	1.31	1.27	1.23	1.20	1.17	1.14	1.11	1.08	1.06	1.03	1.01	0.99	0.97	0.95	0.94
180.0	1.57	1.51	1.46	1.41	1.37	1.32	1.29	1.25	1.22	1.19	1.16	1.13	1.10	1.08	1.06	1.04	1.02	1.00	0.98	0.97
190.0	1.57	1.52	1.47	1.42	1.38	1.34	1.30	1.27	1.24	1.21	1.18	1.15	1.13	1.11	1.09	1.07	1.05	1.03	1.01	1.00

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*10C

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 - 45.00

URANIUM CONC-G/L	PLUTONIUM CONCENTRATION - 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
TRACE	18.64	9.77	7.58	6.42	5.67	5.12	4.70	4.37	4.09	3.85	3.65	3.47	3.31	3.17	3.04	2.93	2.82	2.72	2.63	2.55
10.0	8.91	7.17	6.17	5.49	4.99	4.60	4.28	4.02	3.79	3.60	3.43	3.27	3.14	3.01	2.90	2.80	2.70	2.61	2.53	2.45
20.0	6.84	5.96	5.34	4.87	4.51	4.21	3.95	3.74	3.55	3.38	3.24	3.10	2.98	2.87	2.77	2.68	2.59	2.51	2.43	2.36
30.0	5.77	5.21	4.77	4.43	4.14	3.90	3.69	3.51	3.35	3.20	3.07	2.95	2.85	2.75	2.66	2.57	2.49	2.42	2.35	2.28
40.0	5.09	4.68	4.35	4.08	3.85	3.65	3.47	3.31	3.17	3.04	2.93	2.82	2.73	2.64	2.55	2.48	2.40	2.33	2.27	2.21
50.0	4.60	4.29	4.03	3.80	3.61	3.43	3.28	3.14	3.02	2.91	2.80	2.71	2.62	2.54	2.46	2.39	2.32	2.26	2.20	2.14
60.0	4.23	3.98	3.76	3.57	3.40	3.25	3.12	3.00	2.89	2.78	2.69	2.60	2.52	2.45	2.37	2.31	2.24	2.18	2.13	2.07
70.0	3.94	3.72	3.54	3.38	3.23	3.10	2.98	2.87	2.77	2.67	2.59	2.51	2.43	2.36	2.30	2.23	2.17	2.12	2.07	2.02
80.0	3.69	3.51	3.35	3.21	3.08	2.96	2.85	2.75	2.66	2.58	2.50	2.42	2.35	2.29	2.22	2.17	2.11	2.06	2.01	1.96
90.0	3.49	3.33	3.19	3.06	2.94	2.84	2.74	2.65	2.56	2.49	2.41	2.34	2.28	2.22	2.16	2.10	2.05	2.00	1.95	1.91
100.0	3.31	3.17	3.05	2.93	2.83	2.73	2.64	2.55	2.48	2.40	2.33	2.27	2.21	2.15	2.10	2.04	1.99	1.95	1.90	1.86
110.0	3.16	3.04	2.92	2.82	2.72	2.63	2.55	2.47	2.40	2.33	2.26	2.20	2.14	2.09	2.04	1.99	1.94	1.90	1.85	1.81
120.0	3.03	2.91	2.81	2.71	2.62	2.54	2.46	2.39	2.32	2.26	2.20	2.14	2.08	2.03	1.98	1.94	1.89	1.85	1.81	1.77
130.0	2.91	2.80	2.71	2.62	2.53	2.46	2.39	2.32	2.25	2.19	2.13	2.08	2.03	1.98	1.93	1.89	1.84	1.80	1.76	1.72
140.0	2.80	2.70	2.61	2.53	2.45	2.38	2.31	2.25	2.19	2.13	2.08	2.03	1.98	1.93	1.88	1.84	1.80	1.76	1.72	1.68
150.0	2.70	2.61	2.53	2.45	2.38	2.31	2.25	2.19	2.13	2.07	2.02	1.97	1.93	1.88	1.84	1.80	1.76	1.72	1.68	1.65
160.0	2.61	2.53	2.45	2.38	2.31	2.25	2.19	2.13	2.07	2.02	1.97	1.92	1.88	1.84	1.79	1.75	1.72	1.68	1.64	1.61
170.0	2.53	2.45	2.38	2.31	2.25	2.19	2.13	2.07	2.02	1.97	1.92	1.88	1.83	1.79	1.75	1.71	1.68	1.64	1.61	1.57
180.0	2.46	2.38	2.32	2.25	2.19	2.13	2.07	2.02	1.97	1.92	1.88	1.83	1.79	1.75	1.71	1.68	1.64	1.61	1.57	1.54
190.0	2.39	2.32	2.25	2.19	2.13	2.08	2.02	1.97	1.93	1.88	1.84	1.79	1.75	1.71	1.68	1.64	1.60	1.57	1.54	1.51

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - N - 0.10
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 50.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	0.12	0.20	0.30	0.39	0.48	0.56	0.63	0.69	0.74	0.77	0.79	0.81	0.81	0.82	0.81	0.81	0.80	0.79	0.78	0.77
10.0	0.29	0.39	0.48	0.56	0.64	0.69	0.74	0.77	0.79	0.81	0.82	0.82	0.82	0.81	0.80	0.79	0.78	0.77	0.76	0.74
20.0	0.48	0.56	0.63	0.69	0.74	0.77	0.79	0.81	0.82	0.82	0.82	0.81	0.81	0.80	0.78	0.77	0.76	0.74	0.73	0.71
30.0	0.63	0.69	0.74	0.77	0.80	0.81	0.82	0.82	0.82	0.82	0.81	0.80	0.79	0.77	0.76	0.75	0.73	0.72	0.70	0.69
40.0	0.74	0.77	0.80	0.81	0.82	0.82	0.82	0.82	0.81	0.80	0.79	0.78	0.76	0.75	0.73	0.72	0.71	0.69	0.68	0.66
50.0	0.80	0.81	0.82	0.83	0.82	0.82	0.81	0.80	0.79	0.78	0.77	0.75	0.74	0.72	0.71	0.69	0.68	0.66	0.65	0.64
60.0	0.82	0.83	0.83	0.82	0.81	0.80	0.79	0.78	0.77	0.75	0.74	0.73	0.71	0.70	0.68	0.67	0.65	0.64	0.62	0.61
70.0	0.83	0.82	0.82	0.81	0.80	0.78	0.77	0.76	0.74	0.73	0.71	0.70	0.68	0.67	0.66	0.64	0.63	0.61	0.60	0.59
80.0	0.82	0.81	0.80	0.78	0.77	0.76	0.74	0.73	0.72	0.70	0.69	0.67	0.66	0.64	0.63	0.62	0.60	0.59	0.58	0.56
90.0	0.80	0.79	0.77	0.76	0.75	0.73	0.72	0.70	0.69	0.67	0.66	0.65	0.63	0.62	0.61	0.59	0.58	0.57	0.55	0.54
100.0	0.78	0.76	0.75	0.73	0.72	0.71	0.69	0.68	0.66	0.65	0.63	0.62	0.61	0.59	0.58	0.57	0.56	0.55	0.53	0.52
110.0	0.75	0.74	0.72	0.71	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	0.52	0.51	0.50
120.0	0.72	0.71	0.69	0.68	0.67	0.65	0.64	0.63	0.61	0.60	0.59	0.57	0.56	0.55	0.54	0.53	0.52	0.51	0.49	0.48
130.0	0.70	0.68	0.67	0.65	0.64	0.63	0.61	0.60	0.59	0.58	0.56	0.55	0.54	0.53	0.52	0.51	0.50	0.49	0.48	0.47
140.0	0.67	0.66	0.64	0.63	0.62	0.60	0.59	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
150.0	0.65	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	0.44	0.44
160.0	0.62	0.61	0.60	0.58	0.57	0.56	0.55	0.54	0.53	0.52	0.50	0.49	0.48	0.47	0.47	0.46	0.45	0.44	0.43	0.42
170.0	0.60	0.59	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	0.41	0.41
180.0	0.58	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	0.43	0.42	0.41	0.40	0.39
190.0	0.55	0.54	0.53	0.52	0.51	0.50	0.49	0.48	0.47	0.46	0.45	0.45	0.44	0.43	0.42	0.41	0.40	0.40	0.39	0.38

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 - 50.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	0.10	0.17	0.25	0.33	0.41	0.48	0.54	0.59	0.63	0.65	0.67	0.69	0.70	0.70	0.70	0.69	0.69	0.68	0.67	0.66
10.0	0.24	0.32	0.40	0.47	0.53	0.57	0.61	0.64	0.66	0.67	0.68	0.68	0.68	0.68	0.67	0.66	0.66	0.65	0.64	0.63
20.0	0.39	0.46	0.51	0.56	0.60	0.62	0.64	0.66	0.66	0.67	0.67	0.66	0.66	0.65	0.64	0.63	0.62	0.61	0.60	0.59
30.0	0.50	0.55	0.58	0.61	0.63	0.64	0.65	0.65	0.65	0.65	0.64	0.64	0.63	0.62	0.61	0.60	0.59	0.58	0.57	0.56
40.0	0.57	0.60	0.62	0.63	0.64	0.64	0.64	0.64	0.63	0.62	0.62	0.61	0.60	0.59	0.58	0.57	0.56	0.55	0.54	0.53
50.0	0.60	0.62	0.62	0.63	0.63	0.62	0.62	0.61	0.60	0.59	0.59	0.58	0.57	0.56	0.55	0.54	0.53	0.52	0.51	0.50
60.0	0.61	0.61	0.61	0.61	0.61	0.60	0.59	0.58	0.57	0.57	0.56	0.55	0.54	0.53	0.52	0.51	0.50	0.49	0.48	0.47
70.0	0.60	0.60	0.59	0.59	0.58	0.57	0.56	0.55	0.54	0.54	0.53	0.52	0.51	0.50	0.49	0.48	0.47	0.46	0.46	0.44
80.0	0.58	0.58	0.57	0.56	0.55	0.54	0.53	0.53	0.52	0.51	0.50	0.49	0.48	0.47	0.46	0.45	0.44	0.43	0.43	0.42
90.0	0.56	0.55	0.54	0.53	0.53	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	0.40	0.40
100.0	0.53	0.52	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	0.40	0.40	0.39	0.38	0.38
110.0	0.51	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	0.38	0.38	0.37	0.36	0.36
120.0	0.48	0.47	0.46	0.46	0.45	0.44	0.43	0.42	0.41	0.41	0.40	0.39	0.38	0.38	0.37	0.36	0.36	0.35	0.35	0.34
130.0	0.46	0.45	0.44	0.43	0.42	0.42	0.41	0.40	0.39	0.39	0.38	0.37	0.37	0.36	0.35	0.35	0.34	0.33	0.33	0.32
140.0	0.43	0.42	0.42	0.41	0.40	0.39	0.39	0.38	0.37	0.37	0.36	0.35	0.35	0.34	0.34	0.33	0.32	0.32	0.31	0.31
150.0	0.41	0.40	0.40	0.39	0.38	0.37	0.37	0.36	0.35	0.35	0.34	0.34	0.33	0.33	0.32	0.31	0.31	0.30	0.30	0.29
160.0	0.39	0.38	0.38	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	0.29	0.29	0.28
170.0	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	0.29	0.29	0.28	0.28	0.27	0.27
180.0	0.35	0.35	0.34	0.33	0.33	0.32	0.32	0.31	0.31	0.30	0.30	0.29	0.29	0.28	0.28	0.27	0.27	0.27	0.26	0.26
190.0	0.34	0.33	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	0.26	0.26	0.26	0.25	0.25

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*10C

NITRIC ACID CONC. - M - 3.10
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-N- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 50.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	4.22	5.56	6.72	7.68	8.41	8.94	9.27	9.44	9.48	9.42	9.28	9.10	8.87	8.63	8.37	8.11	7.84	7.58	7.32	7.07
10.0	6.71	7.67	8.41	8.94	9.27	9.45	9.49	9.43	9.30	9.11	8.89	8.65	8.39	8.13	7.86	7.60	7.34	7.09	6.85	6.61
20.0	8.40	8.93	9.27	9.45	9.50	9.44	9.31	9.13	8.91	8.67	8.41	8.15	7.88	7.62	7.36	7.11	6.87	6.63	6.41	6.19
30.0	9.27	9.45	9.50	9.45	9.32	9.14	8.92	8.68	8.43	8.16	7.90	7.64	7.38	7.13	6.89	6.65	6.43	6.21	6.00	5.80
40.0	9.51	9.46	9.33	9.15	8.94	8.70	8.44	8.18	7.92	7.66	7.40	7.15	6.90	6.67	6.44	6.23	6.02	5.82	5.63	5.45
50.0	9.34	9.16	8.95	8.71	8.46	8.19	7.93	7.67	7.41	7.16	6.92	6.69	6.46	6.24	6.04	5.84	5.65	5.47	5.29	5.13
60.0	8.96	8.72	8.47	8.21	7.95	7.68	7.43	7.18	6.94	6.70	6.48	6.26	6.05	5.85	5.66	5.48	5.31	5.14	4.99	4.84
70.0	8.48	8.22	7.96	7.70	7.44	7.19	6.95	6.72	6.49	6.27	6.07	5.87	5.68	5.50	5.32	5.16	5.00	4.85	4.71	4.58
80.0	7.97	7.71	7.45	7.20	6.96	6.73	6.50	6.29	6.08	5.88	5.69	5.51	5.34	5.17	5.02	4.87	4.72	4.59	4.46	4.34
90.0	7.46	7.22	6.97	6.74	6.52	6.30	6.09	5.89	5.70	5.52	5.35	5.19	5.03	4.88	4.74	4.60	4.47	4.35	4.23	4.12
100.0	6.99	6.75	6.53	6.31	6.10	5.91	5.72	5.54	5.36	5.20	5.04	4.89	4.75	4.61	4.49	4.36	4.25	4.13	4.03	3.93
110.0	6.54	6.32	6.12	5.92	5.73	5.55	5.37	5.21	5.05	4.90	4.76	4.63	4.50	4.37	4.26	4.15	4.04	3.94	3.84	3.75
120.0	6.13	5.93	5.74	5.56	5.39	5.22	5.06	4.92	4.77	4.64	4.51	4.39	4.27	4.16	4.05	3.95	3.85	3.76	3.67	3.59
130.0	5.75	5.57	5.40	5.23	5.08	4.93	4.78	4.65	4.52	4.40	4.28	4.17	4.06	3.96	3.86	3.77	3.68	3.60	3.52	3.44
140.0	5.41	5.24	5.09	4.94	4.79	4.66	4.53	4.41	4.29	4.18	4.07	3.97	3.87	3.78	3.69	3.61	3.53	3.45	3.38	3.31
150.0	5.10	4.95	4.80	4.67	4.54	4.42	4.30	4.19	4.08	3.98	3.88	3.79	3.70	3.62	3.54	3.46	3.39	3.32	3.25	3.19
160.0	4.81	4.68	4.55	4.43	4.31	4.20	4.09	3.99	3.89	3.80	3.71	3.63	3.55	3.47	3.40	3.33	3.26	3.20	3.14	3.08
170.0	4.56	4.44	4.32	4.21	4.10	4.00	3.90	3.81	3.72	3.64	3.56	3.48	3.41	3.34	3.27	3.21	3.15	3.09	3.03	2.98
180.0	4.33	4.22	4.11	4.01	3.91	3.82	3.73	3.65	3.57	3.49	3.42	3.35	3.28	3.22	3.16	3.10	3.04	2.99	2.93	2.88
190.0	4.12	4.02	3.92	3.83	3.74	3.66	3.58	3.50	3.43	3.36	3.29	3.23	3.16	3.11	3.05	2.99	2.94	2.89	2.84	2.80

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 - 50.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	0.64	0.74	0.83	0.90	0.95	0.98	1.00	1.01	1.02	1.01	1.00	0.98	0.97	0.95	0.93	0.91	0.89	0.86	0.84	0.82
10.0	0.83	0.90	0.95	0.99	1.01	1.02	1.02	1.01	1.00	0.99	0.97	0.95	0.93	0.91	0.89	0.87	0.85	0.83	0.80	0.78
20.0	0.95	0.99	1.01	1.02	1.02	1.02	1.01	0.99	0.98	0.96	0.94	0.92	0.89	0.87	0.85	0.83	0.81	0.79	0.77	0.75
30.0	1.01	1.02	1.02	1.02	1.01	1.00	0.98	0.96	0.94	0.92	0.90	0.88	0.85	0.83	0.81	0.79	0.77	0.75	0.73	0.71
40.0	1.03	1.02	1.01	1.00	0.98	0.96	0.94	0.92	0.90	0.88	0.86	0.84	0.82	0.79	0.77	0.75	0.74	0.72	0.70	0.68
50.0	1.02	1.00	0.99	0.97	0.95	0.93	0.90	0.88	0.86	0.84	0.82	0.80	0.78	0.76	0.74	0.72	0.70	0.68	0.67	0.65
60.0	0.99	0.97	0.95	0.93	0.91	0.89	0.86	0.84	0.82	0.80	0.78	0.76	0.74	0.72	0.71	0.69	0.67	0.65	0.64	0.62
70.0	0.95	0.93	0.91	0.89	0.87	0.85	0.83	0.81	0.79	0.77	0.75	0.73	0.71	0.69	0.67	0.66	0.64	0.63	0.61	0.59
80.0	0.91	0.89	0.87	0.85	0.83	0.81	0.79	0.77	0.75	0.73	0.71	0.69	0.68	0.66	0.64	0.63	0.61	0.60	0.58	0.57
90.0	0.87	0.85	0.83	0.81	0.79	0.77	0.75	0.73	0.72	0.70	0.68	0.66	0.65	0.63	0.62	0.60	0.59	0.57	0.56	0.55
100.0	0.84	0.81	0.79	0.77	0.76	0.74	0.72	0.70	0.68	0.67	0.65	0.63	0.62	0.60	0.59	0.58	0.56	0.55	0.54	0.52
110.0	0.80	0.78	0.76	0.74	0.72	0.70	0.69	0.67	0.65	0.64	0.62	0.61	0.59	0.58	0.57	0.55	0.54	0.53	0.52	0.50
120.0	0.76	0.74	0.72	0.71	0.69	0.67	0.66	0.64	0.63	0.61	0.60	0.58	0.57	0.56	0.54	0.53	0.52	0.51	0.50	0.48
130.0	0.73	0.71	0.69	0.68	0.66	0.64	0.63	0.61	0.60	0.59	0.57	0.56	0.55	0.53	0.52	0.51	0.50	0.49	0.48	0.47
140.0	0.70	0.68	0.66	0.65	0.63	0.62	0.60	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
150.0	0.67	0.65	0.63	0.62	0.61	0.59	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
160.0	0.64	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	0.47	0.46	0.45	0.44	0.43	0.42
170.0	0.61	0.60	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	0.44	0.43	0.42	0.41	0.40
180.0	0.59	0.57	0.56	0.55	0.54	0.53	0.51	0.50	0.49	0.48	0.47	0.46	0.45	0.44	0.43	0.42	0.42	0.41	0.40	0.39
190.0	0.56	0.55	0.54	0.53	0.52	0.51	0.49	0.48	0.47	0.46	0.45	0.45	0.44	0.43	0.42	0.41	0.40	0.39	0.39	0.38

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 - 50.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	0.54	0.63	0.70	0.76	0.81	0.84	0.86	0.87	0.87	0.86	0.86	0.85	0.83	0.82	0.80	0.78	0.77	0.75	0.73	0.72
10.0	0.69	0.75	0.79	0.82	0.84	0.85	0.85	0.85	0.84	0.83	0.82	0.80	0.78	0.77	0.75	0.74	0.72	0.70	0.69	0.67
20.0	0.77	0.80	0.82	0.83	0.83	0.83	0.82	0.81	0.80	0.78	0.77	0.75	0.74	0.72	0.70	0.69	0.67	0.66	0.64	0.63
30.0	0.80	0.81	0.82	0.81	0.81	0.80	0.78	0.77	0.76	0.74	0.72	0.71	0.69	0.68	0.66	0.65	0.63	0.62	0.60	0.59
40.0	0.80	0.80	0.79	0.78	0.77	0.76	0.74	0.73	0.71	0.69	0.68	0.66	0.65	0.63	0.62	0.60	0.59	0.58	0.56	0.55
50.0	0.78	0.77	0.75	0.74	0.73	0.71	0.70	0.68	0.67	0.65	0.64	0.62	0.61	0.59	0.58	0.57	0.55	0.54	0.53	0.52
60.0	0.74	0.73	0.71	0.70	0.69	0.67	0.66	0.64	0.63	0.61	0.60	0.58	0.57	0.56	0.54	0.53	0.52	0.51	0.50	0.49
70.0	0.70	0.69	0.67	0.66	0.64	0.63	0.62	0.60	0.59	0.57	0.56	0.55	0.54	0.52	0.51	0.50	0.49	0.48	0.47	0.46
80.0	0.66	0.65	0.63	0.62	0.60	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	0.44	0.43
90.0	0.62	0.61	0.59	0.58	0.57	0.56	0.54	0.53	0.52	0.51	0.50	0.49	0.47	0.46	0.45	0.45	0.44	0.43	0.42	0.41
100.0	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	0.42	0.41	0.40	0.40	0.39
110.0	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	0.42	0.41	0.40	0.39	0.38	0.38	0.37
120.0	0.52	0.51	0.50	0.48	0.47	0.46	0.45	0.44	0.44	0.43	0.42	0.41	0.40	0.39	0.39	0.38	0.37	0.36	0.36	0.35
130.0	0.49	0.48	0.47	0.46	0.45	0.44	0.43	0.42	0.41	0.40	0.40	0.39	0.38	0.37	0.37	0.36	0.35	0.35	0.34	0.33
140.0	0.46	0.45	0.44	0.43	0.42	0.41	0.41	0.40	0.39	0.38	0.38	0.37	0.36	0.35	0.35	0.34	0.34	0.33	0.32	0.32
150.0	0.44	0.43	0.42	0.41	0.40	0.39	0.39	0.38	0.37	0.36	0.36	0.35	0.34	0.34	0.33	0.33	0.32	0.32	0.31	0.30
160.0	0.41	0.40	0.40	0.39	0.38	0.37	0.37	0.36	0.35	0.35	0.34	0.33	0.33	0.32	0.32	0.31	0.31	0.30	0.30	0.29
170.0	0.39	0.38	0.38	0.37	0.36	0.35	0.35	0.34	0.34	0.33	0.32	0.32	0.31	0.31	0.30	0.30	0.29	0.29	0.28	0.28
180.0	0.37	0.36	0.36	0.35	0.34	0.34	0.33	0.33	0.32	0.31	0.31	0.30	0.30	0.29	0.29	0.29	0.28	0.28	0.27	0.27
190.0	0.35	0.35	0.34	0.33	0.33	0.32	0.32	0.31	0.31	0.30	0.30	0.29	0.29	0.28	0.28	0.27	0.27	0.27	0.26	0.26

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*10C

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 - 50.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	9.95	10.55	10.93	11.09	11.09	10.96	10.74	10.46	10.14	9.79	9.44	9.09	8.74	8.40	8.07	7.76	7.46	7.17	6.90	6.64
10.0	10.93	11.10	11.11	10.98	10.76	10.48	10.16	9.82	9.47	9.12	8.77	8.43	8.10	7.79	7.48	7.20	6.92	6.66	6.42	6.18
20.0	11.12	11.00	10.79	10.51	10.19	9.85	9.50	9.14	8.80	8.46	8.13	7.81	7.51	7.22	6.95	6.69	6.44	6.21	5.99	5.78
30.0	10.81	10.53	10.21	9.87	9.52	9.17	8.82	8.48	8.15	7.84	7.54	7.25	6.97	6.71	6.47	6.23	6.01	5.80	5.60	5.41
40.0	10.23	9.89	9.54	9.19	8.84	8.51	8.18	7.86	7.56	7.27	7.00	6.74	6.49	6.25	6.03	5.82	5.62	5.43	5.26	5.09
50.0	9.56	9.21	8.87	8.53	8.20	7.88	7.58	7.29	7.02	6.76	6.51	6.28	6.05	5.84	5.64	5.45	5.28	5.11	4.95	4.79
60.0	8.89	8.55	8.22	7.90	7.60	7.31	7.04	6.78	6.53	6.29	6.07	5.86	5.66	5.47	5.29	5.12	4.96	4.81	4.67	4.53
70.0	8.24	7.92	7.62	7.33	7.06	6.80	6.55	6.31	6.09	5.88	5.68	5.49	5.31	5.14	4.98	4.83	4.68	4.55	4.42	4.29
80.0	7.64	7.35	7.08	6.81	6.57	6.33	6.11	5.90	5.70	5.51	5.33	5.16	5.00	4.84	4.70	4.56	4.43	4.31	4.19	4.08
90.0	7.09	6.83	6.58	6.35	6.12	5.91	5.71	5.52	5.34	5.17	5.01	4.86	4.72	4.58	4.45	4.32	4.21	4.10	3.99	3.89
100.0	6.60	6.36	6.14	5.93	5.73	5.54	5.36	5.19	5.03	4.87	4.73	4.59	4.46	4.34	4.22	4.11	4.00	3.90	3.81	3.72
110.0	6.15	5.94	5.74	5.55	5.37	5.20	5.04	4.89	4.74	4.61	4.48	4.35	4.24	4.12	4.02	3.92	3.82	3.73	3.64	3.56
120.0	5.76	5.57	5.39	5.22	5.06	4.90	4.76	4.62	4.49	4.37	4.25	4.14	4.03	3.93	3.83	3.74	3.66	3.57	3.49	3.42
130.0	5.40	5.23	5.07	4.92	4.77	4.63	4.50	4.38	4.26	4.15	4.04	3.94	3.85	3.75	3.67	3.58	3.51	3.43	3.36	3.29
140.0	5.08	4.93	4.78	4.65	4.52	4.39	4.27	4.16	4.06	3.95	3.86	3.77	3.68	3.60	3.52	3.44	3.37	3.30	3.23	3.17
150.0	4.80	4.66	4.53	4.40	4.29	4.17	4.07	3.97	3.87	3.78	3.69	3.61	3.53	3.45	3.38	3.31	3.24	3.18	3.12	3.06
160.0	4.54	4.41	4.30	4.18	4.08	3.98	3.88	3.79	3.70	3.62	3.54	3.46	3.39	3.32	3.25	3.19	3.13	3.07	3.02	2.96
170.0	4.31	4.20	4.09	3.99	3.89	3.80	3.71	3.63	3.55	3.47	3.40	3.33	3.27	3.20	3.14	3.08	3.03	2.97	2.92	2.87
180.0	4.10	4.00	3.90	3.81	3.72	3.64	3.56	3.48	3.41	3.34	3.28	3.21	3.15	3.09	3.04	2.98	2.93	2.88	2.83	2.78
190.0	3.91	3.82	3.73	3.65	3.57	3.49	3.42	3.35	3.29	3.22	3.16	3.10	3.05	2.99	2.94	2.89	2.84	2.79	2.75	2.71

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 - 50.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	1.35	1.38	1.39	1.38	1.37	1.34	1.31	1.27	1.23	1.19	1.16	1.12	1.08	1.05	1.01	0.98	0.95	0.92	0.89	0.86
10.0	1.40	1.39	1.37	1.34	1.31	1.28	1.24	1.20	1.16	1.12	1.09	1.05	1.02	0.99	0.95	0.92	0.89	0.87	0.84	0.81
20.0	1.38	1.35	1.32	1.28	1.25	1.21	1.17	1.13	1.09	1.06	1.02	0.99	0.96	0.93	0.90	0.87	0.84	0.82	0.79	0.77
30.0	1.32	1.29	1.25	1.21	1.17	1.14	1.10	1.06	1.03	1.00	0.96	0.93	0.90	0.88	0.85	0.82	0.80	0.77	0.75	0.73
40.0	1.26	1.22	1.18	1.14	1.11	1.07	1.04	1.00	0.97	0.94	0.91	0.88	0.85	0.83	0.80	0.78	0.76	0.73	0.71	0.69
50.0	1.19	1.15	1.11	1.08	1.04	1.01	0.98	0.94	0.91	0.89	0.86	0.83	0.81	0.78	0.76	0.74	0.72	0.70	0.68	0.66
60.0	1.12	1.08	1.05	1.01	0.98	0.95	0.92	0.89	0.86	0.84	0.81	0.79	0.77	0.74	0.72	0.70	0.68	0.66	0.64	0.63
70.0	1.05	1.02	0.99	0.95	0.92	0.90	0.87	0.84	0.82	0.79	0.77	0.75	0.73	0.71	0.69	0.67	0.65	0.63	0.61	0.60
80.0	0.99	0.96	0.93	0.90	0.87	0.85	0.82	0.80	0.77	0.75	0.73	0.71	0.69	0.67	0.65	0.64	0.62	0.60	0.59	0.57
90.0	0.93	0.91	0.88	0.85	0.83	0.80	0.78	0.76	0.74	0.71	0.69	0.68	0.66	0.64	0.62	0.61	0.59	0.58	0.56	0.55
100.0	0.88	0.86	0.83	0.81	0.78	0.76	0.74	0.72	0.70	0.68	0.66	0.64	0.63	0.61	0.60	0.58	0.57	0.55	0.54	0.52
110.0	0.83	0.81	0.79	0.76	0.74	0.72	0.70	0.68	0.67	0.65	0.63	0.61	0.60	0.58	0.57	0.56	0.54	0.53	0.52	0.50
120.0	0.79	0.77	0.75	0.73	0.71	0.69	0.67	0.65	0.64	0.62	0.60	0.59	0.57	0.56	0.55	0.53	0.52	0.51	0.49	0.48
130.0	0.75	0.73	0.71	0.69	0.67	0.66	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	0.46
140.0	0.72	0.70	0.68	0.66	0.64	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
150.0	0.68	0.66	0.65	0.63	0.61	0.60	0.58	0.57	0.56	0.54	0.53	0.52	0.51	0.49	0.48	0.47	0.46	0.45	0.44	0.43
160.0	0.65	0.63	0.62	0.60	0.59	0.57	0.56	0.55	0.53	0.52	0.51	0.50	0.49	0.48	0.46	0.45	0.44	0.43	0.42	0.42
170.0	0.62	0.61	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	0.43	0.42	0.41	0.40
180.0	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	0.42	0.41	0.40	0.40	0.39
190.0	0.57	0.56	0.54	0.53	0.52	0.51	0.50	0.49	0.47	0.46	0.45	0.44	0.43	0.43	0.42	0.41	0.40	0.39	0.38	0.37

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

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 - 50.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	1.15	1.18	1.19	1.18	1.17	1.15	1.12	1.09	1.06	1.03	1.00	0.97	0.94	0.91	0.88	0.86	0.83	0.81	0.78	0.76
10.0	1.17	1.16	1.15	1.13	1.10	1.07	1.04	1.01	0.98	0.95	0.92	0.89	0.87	0.84	0.82	0.79	0.77	0.75	0.73	0.71
20.0	1.13	1.11	1.08	1.05	1.02	0.99	0.96	0.94	0.91	0.88	0.85	0.83	0.80	0.78	0.76	0.73	0.71	0.69	0.67	0.66
30.0	1.06	1.04	1.01	0.98	0.95	0.92	0.89	0.86	0.84	0.81	0.79	0.77	0.74	0.72	0.70	0.68	0.66	0.65	0.63	0.61
40.0	0.99	0.96	0.93	0.91	0.88	0.85	0.83	0.80	0.78	0.75	0.73	0.71	0.69	0.67	0.65	0.64	0.62	0.60	0.59	0.57
50.0	0.92	0.89	0.86	0.84	0.81	0.79	0.76	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
60.0	0.85	0.82	0.80	0.78	0.75	0.73	0.71	0.69	0.67	0.65	0.63	0.62	0.60	0.58	0.57	0.56	0.54	0.53	0.52	0.50
70.0	0.79	0.76	0.74	0.72	0.70	0.68	0.66	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
80.0	0.73	0.71	0.69	0.67	0.65	0.63	0.62	0.60	0.58	0.57	0.55	0.54	0.53	0.51	0.50	0.49	0.48	0.47	0.46	0.45
90.0	0.68	0.66	0.64	0.62	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	0.42
100.0	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	0.41	0.40
110.0	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	0.41	0.41	0.40	0.39	0.38
120.0	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	0.38	0.37	0.36
130.0	0.52	0.51	0.49	0.48	0.47	0.46	0.45	0.44	0.43	0.42	0.41	0.40	0.40	0.39	0.38	0.37	0.37	0.36	0.35	0.35
140.0	0.49	0.48	0.46	0.45	0.44	0.43	0.43	0.42	0.41	0.40	0.39	0.38	0.38	0.37	0.36	0.35	0.35	0.34	0.34	0.33
150.0	0.46	0.45	0.44	0.43	0.42	0.41	0.40	0.39	0.39	0.38	0.37	0.36	0.36	0.35	0.34	0.34	0.33	0.33	0.32	0.32
160.0	0.43	0.42	0.42	0.41	0.40	0.39	0.38	0.37	0.37	0.36	0.35	0.35	0.34	0.33	0.33	0.32	0.32	0.31	0.31	0.30
170.0	0.41	0.40	0.39	0.39	0.38	0.37	0.36	0.36	0.35	0.34	0.34	0.33	0.33	0.32	0.31	0.31	0.30	0.30	0.29	0.29
180.0	0.39	0.38	0.37	0.37	0.36	0.35	0.35	0.34	0.33	0.33	0.32	0.32	0.31	0.31	0.30	0.30	0.29	0.29	0.28	0.28
190.0	0.37	0.36	0.36	0.35	0.34	0.34	0.33	0.33	0.32	0.31	0.31	0.30	0.30	0.29	0.29	0.28	0.28	0.28	0.27	0.27

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*10C

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 - 50.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	14.02	13.72	13.29	12.79	12.24	11.69	11.14	10.61	10.11	9.63	9.18	8.75	8.35	7.98	7.63	7.31	7.00	6.71	6.45	6.20
10.0	13.34	12.84	12.29	11.74	11.19	10.66	10.15	9.67	9.22	8.79	8.39	8.02	7.67	7.34	7.03	6.75	6.48	6.23	5.99	5.77
20.0	12.34	11.78	11.24	10.70	10.20	9.71	9.26	8.83	8.43	8.05	7.70	7.37	7.07	6.78	6.51	6.26	6.02	5.80	5.59	5.39
30.0	11.28	10.75	10.24	9.75	9.30	8.87	8.46	8.09	7.74	7.41	7.10	6.81	6.54	6.29	6.05	5.82	5.62	5.42	5.23	5.06
40.0	10.27	9.79	9.33	8.90	8.50	8.12	7.77	7.44	7.13	6.84	6.57	6.31	6.07	5.85	5.64	5.44	5.26	5.08	4.92	4.76
50.0	9.36	8.93	8.53	8.15	7.80	7.47	7.16	6.86	6.59	6.34	6.10	5.87	5.66	5.47	5.28	5.11	4.94	4.79	4.64	4.50
60.0	8.56	8.18	7.82	7.49	7.18	6.89	6.62	6.36	6.12	5.90	5.69	5.49	5.30	5.13	4.96	4.81	4.66	4.52	4.39	4.27
70.0	7.85	7.52	7.21	6.92	6.64	6.39	6.15	5.92	5.71	5.51	5.32	5.15	4.98	4.83	4.68	4.54	4.41	4.28	4.17	4.05
80.0	7.23	6.94	6.66	6.41	6.17	5.94	5.73	5.53	5.34	5.17	5.00	4.84	4.70	4.56	4.43	4.30	4.18	4.07	3.97	3.87
90.0	6.69	6.43	6.19	5.96	5.75	5.55	5.36	5.19	5.02	4.86	4.71	4.57	4.44	4.32	4.20	4.09	3.98	3.88	3.79	3.69
100.0	6.21	5.98	5.77	5.57	5.38	5.20	5.04	4.88	4.73	4.59	4.46	4.33	4.22	4.10	4.00	3.90	3.80	3.71	3.62	3.54
110.0	5.79	5.59	5.40	5.22	5.05	4.90	4.75	4.61	4.48	4.35	4.23	4.12	4.01	3.91	3.82	3.72	3.64	3.55	3.48	3.40
120.0	5.42	5.24	5.07	4.91	4.77	4.62	4.49	4.37	4.25	4.13	4.03	3.93	3.83	3.74	3.65	3.57	3.49	3.41	3.34	3.27
130.0	5.09	4.93	4.78	4.64	4.51	4.38	4.26	4.15	4.04	3.94	3.84	3.75	3.66	3.58	3.50	3.43	3.35	3.29	3.22	3.16
140.0	4.80	4.65	4.52	4.40	4.28	4.16	4.06	3.95	3.86	3.77	3.68	3.60	3.52	3.44	3.37	3.30	3.23	3.17	3.11	3.05
150.0	4.54	4.41	4.29	4.18	4.07	3.97	3.87	3.78	3.69	3.61	3.53	3.45	3.38	3.31	3.24	3.18	3.12	3.06	3.01	2.95
160.0	4.30	4.19	4.08	3.98	3.88	3.79	3.70	3.62	3.54	3.47	3.39	3.32	3.26	3.19	3.13	3.07	3.02	2.96	2.91	2.86
170.0	4.10	3.99	3.90	3.80	3.72	3.63	3.55	3.48	3.40	3.34	3.27	3.20	3.14	3.09	3.03	2.97	2.92	2.87	2.82	2.78
180.0	3.91	3.82	3.73	3.65	3.57	3.49	3.42	3.35	3.28	3.22	3.16	3.10	3.04	2.99	2.93	2.88	2.83	2.79	2.74	2.70
190.0	3.74	3.66	3.58	3.50	3.43	3.36	3.29	3.23	3.17	3.11	3.05	3.00	2.94	2.89	2.85	2.80	2.75	2.71	2.67	2.62

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 1.00
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-N- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 50.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	3.63	3.09	2.70	2.41	2.19	2.00	1.84	1.71	1.60	1.50	1.41	1.33	1.26	1.19	1.14	1.08	1.03	0.99	0.94	0.91
10.0	2.75	2.45	2.22	2.03	1.87	1.73	1.62	1.52	1.43	1.34	1.27	1.21	1.15	1.09	1.04	1.00	0.95	0.92	0.88	0.84
20.0	2.25	2.06	1.89	1.76	1.64	1.53	1.44	1.36	1.29	1.22	1.16	1.11	1.05	1.01	0.97	0.93	0.89	0.85	0.82	0.79
30.0	1.92	1.78	1.66	1.55	1.46	1.38	1.30	1.23	1.17	1.12	1.07	1.02	0.98	0.94	0.90	0.86	0.83	0.80	0.77	0.74
40.0	1.68	1.57	1.47	1.39	1.32	1.25	1.19	1.13	1.08	1.03	0.99	0.94	0.91	0.87	0.84	0.81	0.78	0.75	0.72	0.70
50.0	1.49	1.41	1.33	1.26	1.20	1.14	1.09	1.04	1.00	0.95	0.92	0.88	0.85	0.82	0.79	0.76	0.73	0.71	0.68	0.66
60.0	1.34	1.27	1.21	1.15	1.10	1.05	1.01	0.96	0.93	0.89	0.86	0.82	0.79	0.77	0.74	0.71	0.69	0.67	0.65	0.63
70.0	1.22	1.16	1.11	1.06	1.02	0.97	0.93	0.90	0.86	0.83	0.80	0.77	0.75	0.72	0.70	0.67	0.65	0.63	0.61	0.59
80.0	1.12	1.07	1.03	0.98	0.94	0.91	0.87	0.84	0.81	0.78	0.75	0.73	0.70	0.68	0.66	0.64	0.62	0.60	0.58	0.57
90.0	1.04	0.99	0.95	0.92	0.88	0.85	0.82	0.79	0.76	0.74	0.71	0.69	0.67	0.65	0.63	0.61	0.59	0.57	0.56	0.54
100.0	0.96	0.92	0.89	0.86	0.83	0.80	0.77	0.74	0.72	0.70	0.67	0.65	0.63	0.61	0.60	0.58	0.56	0.55	0.53	0.52
110.0	0.90	0.86	0.83	0.80	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	0.49
120.0	0.84	0.81	0.78	0.76	0.73	0.71	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
130.0	0.79	0.77	0.74	0.72	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	0.47	0.45
140.0	0.75	0.72	0.70	0.68	0.66	0.64	0.62	0.60	0.59	0.57	0.55	0.54	0.52	0.51	0.50	0.48	0.47	0.46	0.45	0.44
150.0	0.71	0.69	0.67	0.65	0.63	0.61	0.59	0.57	0.56	0.54	0.53	0.51	0.50	0.49	0.48	0.46	0.45	0.44	0.43	0.42
160.0	0.67	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	0.46	0.45	0.43	0.42	0.41	0.40
170.0	0.64	0.62	0.60	0.59	0.57	0.55	0.54	0.53	0.51	0.50	0.49	0.47	0.46	0.45	0.44	0.43	0.42	0.41	0.40	0.39
180.0	0.61	0.59	0.58	0.56	0.55	0.53	0.52	0.50	0.49	0.48	0.47	0.46	0.44	0.43	0.42	0.41	0.40	0.39	0.38	0.38
190.0	0.58	0.57	0.55	0.54	0.52	0.51	0.50	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

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 1.00
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-N- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 50.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	3.14	2.68	2.35	2.11	1.91	1.75	1.62	1.51	1.41	1.33	1.25	1.19	1.13	1.07	1.02	0.98	0.94	0.90	0.87	0.83
10.0	2.35	2.10	1.90	1.74	1.61	1.50	1.40	1.32	1.24	1.18	1.12	1.06	1.01	0.97	0.93	0.89	0.86	0.83	0.80	0.77
20.0	1.89	1.73	1.60	1.49	1.39	1.31	1.23	1.17	1.11	1.05	1.01	0.96	0.92	0.88	0.85	0.82	0.79	0.76	0.73	0.71
30.0	1.59	1.48	1.38	1.30	1.22	1.16	1.10	1.05	1.00	0.95	0.91	0.88	0.84	0.81	0.78	0.75	0.73	0.70	0.68	0.66
40.0	1.37	1.29	1.21	1.15	1.09	1.04	0.99	0.94	0.90	0.87	0.83	0.80	0.77	0.75	0.72	0.70	0.67	0.65	0.63	0.62
50.0	1.20	1.14	1.08	1.03	0.98	0.94	0.90	0.86	0.83	0.80	0.77	0.74	0.71	0.69	0.67	0.65	0.63	0.61	0.59	0.58
60.0	1.07	1.02	0.97	0.93	0.89	0.85	0.82	0.79	0.76	0.73	0.71	0.69	0.66	0.64	0.62	0.61	0.59	0.57	0.56	0.54
70.0	0.96	0.92	0.88	0.85	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
80.0	0.88	0.84	0.81	0.78	0.75	0.72	0.70	0.67	0.65	0.63	0.61	0.60	0.58	0.56	0.55	0.53	0.52	0.51	0.49	0.48
90.0	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	0.48	0.47	0.46
100.0	0.74	0.71	0.69	0.66	0.64	0.62	0.60	0.59	0.57	0.55	0.54	0.52	0.51	0.50	0.49	0.47	0.46	0.45	0.44	0.43
110.0	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	0.46	0.45	0.44	0.43	0.42	0.41
120.0	0.63	0.61	0.59	0.58	0.56	0.55	0.53	0.52	0.50	0.49	0.48	0.47	0.46	0.45	0.44	0.43	0.42	0.41	0.40	0.39
130.0	0.59	0.57	0.56	0.54	0.53	0.51	0.50	0.49	0.48	0.46	0.45	0.44	0.43	0.42	0.42	0.41	0.40	0.39	0.38	0.38
140.0	0.55	0.54	0.52	0.51	0.50	0.48	0.47	0.46	0.45	0.44	0.43	0.42	0.41	0.40	0.40	0.39	0.38	0.37	0.37	0.36
150.0	0.52	0.51	0.49	0.48	0.47	0.46	0.45	0.44	0.43	0.42	0.41	0.40	0.39	0.39	0.38	0.37	0.36	0.36	0.35	0.34
160.0	0.49	0.48	0.47	0.46	0.45	0.44	0.43	0.42	0.41	0.40	0.39	0.38	0.38	0.37	0.36	0.36	0.35	0.34	0.34	0.33
170.0	0.46	0.45	0.44	0.43	0.42	0.41	0.41	0.40	0.39	0.38	0.37	0.37	0.36	0.35	0.35	0.34	0.33	0.33	0.32	0.32
180.0	0.44	0.43	0.42	0.41	0.40	0.40	0.39	0.38	0.37	0.36	0.36	0.35	0.35	0.34	0.33	0.33	0.32	0.32	0.31	0.31
190.0	0.42	0.41	0.40	0.39	0.39	0.38	0.37	0.36	0.36	0.35	0.34	0.34	0.33	0.33	0.32	0.32	0.31	0.30	0.30	0.30

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*10C

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 - 50.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	19.48	16.80	14.86	13.36	12.16	11.17	10.33	9.62	8.99	8.45	7.96	7.53	7.14	6.79	6.48	6.19	5.92	5.68	5.46	5.25
10.0	15.07	13.53	12.30	11.29	10.44	9.71	9.08	8.52	8.03	7.60	7.20	6.85	6.53	6.24	5.97	5.72	5.50	5.29	5.09	4.91
20.0	12.44	11.41	10.54	9.80	9.16	8.60	8.10	7.66	7.26	6.90	6.58	6.28	6.01	5.76	5.54	5.32	5.13	4.95	4.78	4.62
30.0	10.64	9.89	9.24	8.67	8.16	7.72	7.31	6.95	6.63	6.33	6.05	5.80	5.57	5.36	5.16	4.98	4.81	4.65	4.51	4.37
40.0	9.31	8.74	8.23	7.77	7.37	7.00	6.67	6.37	6.10	5.84	5.61	5.40	5.20	5.01	4.84	4.68	4.53	4.40	4.26	4.14
50.0	8.29	7.83	7.42	7.05	6.72	6.41	6.14	5.88	5.65	5.43	5.23	5.05	4.87	4.71	4.56	4.42	4.29	4.17	4.05	3.94
60.0	7.47	7.10	6.76	6.46	6.18	5.92	5.68	5.47	5.26	5.08	4.90	4.74	4.59	4.45	4.32	4.19	4.07	3.96	3.86	3.76
70.0	6.81	6.50	6.22	5.96	5.72	5.50	5.30	5.11	4.93	4.77	4.62	4.48	4.34	4.22	4.10	3.99	3.88	3.78	3.69	3.60
80.0	6.25	5.99	5.75	5.53	5.33	5.14	4.96	4.80	4.65	4.50	4.37	4.24	4.12	4.01	3.91	3.81	3.71	3.62	3.54	3.45
90.0	5.79	5.57	5.36	5.17	4.99	4.83	4.67	4.53	4.39	4.27	4.15	4.03	3.93	3.83	3.73	3.64	3.56	3.47	3.40	3.32
100.0	5.39	5.20	5.02	4.85	4.70	4.55	4.42	4.29	4.17	4.06	3.95	3.85	3.75	3.66	3.58	3.49	3.42	3.34	3.27	3.20
110.0	5.05	4.88	4.72	4.58	4.44	4.31	4.19	4.08	3.97	3.87	3.77	3.68	3.60	3.51	3.43	3.36	3.29	3.22	3.15	3.09
120.0	4.75	4.60	4.46	4.34	4.21	4.10	3.99	3.89	3.79	3.70	3.61	3.53	3.45	3.38	3.31	3.24	3.17	3.11	3.05	2.99
130.0	4.49	4.36	4.24	4.12	4.01	3.91	3.81	3.72	3.63	3.55	3.47	3.40	3.32	3.26	3.19	3.13	3.07	3.01	2.95	2.90
140.0	4.26	4.14	4.03	3.93	3.83	3.74	3.65	3.57	3.49	3.41	3.34	3.27	3.21	3.14	3.08	3.02	2.97	2.91	2.86	2.81
150.0	4.05	3.95	3.85	3.76	3.67	3.59	3.51	3.43	3.36	3.29	3.22	3.16	3.10	3.04	2.98	2.93	2.88	2.83	2.78	2.73
160.0	3.87	3.78	3.69	3.61	3.53	3.45	3.38	3.31	3.24	3.18	3.11	3.06	3.00	2.94	2.89	2.84	2.79	2.74	2.70	2.65
170.0	3.71	3.62	3.54	3.47	3.39	3.32	3.26	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
180.0	3.56	3.48	3.41	3.34	3.27	3.21	3.15	3.09	3.03	2.98	2.92	2.87	2.82	2.77	2.73	2.68	2.64	2.60	2.56	2.51
190.0	3.43	3.36	3.29	3.23	3.16	3.10	3.05	2.99	2.94	2.89	2.84	2.79	2.74	2.70	2.65	2.61	2.57	2.53	2.49	2.45

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 2.00
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-N- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 50.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	10.35	6.27	4.60	3.66	3.05	2.62	2.30	2.05	1.85	1.68	1.54	1.42	1.32	1.23	1.15	1.08	1.02	0.96	0.91	0.87
10.0	4.96	3.89	3.21	2.74	2.39	2.12	1.91	1.73	1.59	1.46	1.36	1.26	1.18	1.11	1.04	0.99	0.93	0.88	0.84	0.80
20.0	3.38	2.87	2.49	2.20	1.98	1.79	1.64	1.51	1.39	1.30	1.21	1.14	1.07	1.01	0.95	0.90	0.86	0.82	0.78	0.75
30.0	2.60	2.29	2.05	1.85	1.69	1.55	1.43	1.33	1.24	1.16	1.10	1.03	0.98	0.93	0.88	0.84	0.80	0.76	0.73	0.70
40.0	2.12	1.91	1.74	1.60	1.47	1.37	1.28	1.19	1.12	1.06	1.00	0.95	0.90	0.85	0.81	0.78	0.74	0.71	0.68	0.65
50.0	1.80	1.64	1.52	1.41	1.31	1.23	1.15	1.08	1.02	0.97	0.92	0.87	0.83	0.79	0.76	0.73	0.70	0.67	0.64	0.61
60.0	1.56	1.44	1.34	1.26	1.18	1.11	1.05	0.99	0.94	0.89	0.85	0.81	0.77	0.74	0.71	0.68	0.65	0.63	0.60	0.58
70.0	1.38	1.29	1.21	1.14	1.07	1.01	0.96	0.91	0.87	0.83	0.79	0.76	0.72	0.69	0.67	0.64	0.62	0.59	0.57	0.55
80.0	1.24	1.17	1.10	1.04	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	0.54	0.52
90.0	1.13	1.06	1.01	0.96	0.91	0.87	0.83	0.79	0.76	0.72	0.69	0.67	0.64	0.62	0.59	0.57	0.55	0.53	0.51	0.50
100.0	1.03	0.98	0.93	0.88	0.84	0.81	0.77	0.74	0.71	0.68	0.65	0.63	0.61	0.58	0.56	0.54	0.52	0.51	0.49	0.47
110.0	0.95	0.90	0.86	0.82	0.79	0.75	0.72	0.69	0.67	0.64	0.62	0.60	0.57	0.55	0.53	0.52	0.50	0.48	0.47	0.45
120.0	0.88	0.84	0.81	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	0.45	0.43
130.0	0.82	0.79	0.75	0.72	0.70	0.67	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
140.0	0.77	0.74	0.71	0.68	0.66	0.63	0.61	0.59	0.57	0.55	0.53	0.51	0.50	0.48	0.46	0.45	0.44	0.42	0.41	0.40
150.0	0.73	0.70	0.67	0.65	0.62	0.60	0.58	0.56	0.54	0.52	0.51	0.49	0.47	0.46	0.45	0.43	0.42	0.41	0.39	0.38
160.0	0.69	0.66	0.64	0.61	0.59	0.57	0.55	0.53	0.52	0.50	0.48	0.47	0.45	0.44	0.43	0.41	0.40	0.39	0.38	0.37
170.0	0.65	0.63	0.60	0.58	0.56	0.54	0.53	0.51	0.49	0.48	0.46	0.45	0.44	0.42	0.41	0.40	0.39	0.38	0.37	0.36
180.0	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	0.41	0.39	0.38	0.37	0.36	0.35	0.34
190.0	0.59	0.57	0.55	0.53	0.51	0.50	0.48	0.47	0.45	0.44	0.43	0.41	0.40	0.39	0.38	0.37	0.36	0.35	0.34	0.33

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 2.00
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 50.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	9.67	5.89	4.34	3.47	2.91	2.51	2.21	1.98	1.79	1.64	1.52	1.41	1.31	1.23	1.16	1.10	1.04	0.99	0.94	0.90
10.0	4.62	3.63	3.01	2.59	2.27	2.02	1.83	1.67	1.54	1.43	1.33	1.25	1.17	1.11	1.05	1.00	0.95	0.91	0.87	0.83
20.0	3.13	2.67	2.33	2.07	1.87	1.70	1.56	1.45	1.35	1.26	1.19	1.12	1.06	1.01	0.96	0.91	0.87	0.84	0.80	0.77
30.0	2.40	2.12	1.91	1.73	1.59	1.47	1.37	1.28	1.20	1.13	1.07	1.02	0.97	0.92	0.88	0.84	0.81	0.78	0.75	0.72
40.0	1.95	1.77	1.62	1.49	1.39	1.29	1.21	1.14	1.08	1.03	0.98	0.93	0.89	0.85	0.82	0.78	0.76	0.73	0.70	0.68
50.0	1.65	1.52	1.41	1.31	1.23	1.16	1.09	1.04	0.98	0.94	0.90	0.86	0.82	0.79	0.76	0.73	0.71	0.68	0.66	0.64
60.0	1.43	1.33	1.25	1.17	1.11	1.05	0.99	0.95	0.90	0.87	0.83	0.80	0.77	0.74	0.71	0.69	0.67	0.64	0.62	0.61
70.0	1.26	1.19	1.12	1.06	1.01	0.96	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
80.0	1.13	1.07	1.02	0.97	0.92	0.88	0.84	0.81	0.78	0.75	0.72	0.70	0.67	0.65	0.63	0.61	0.60	0.58	0.56	0.55
90.0	1.03	0.98	0.93	0.89	0.85	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
100.0	0.94	0.90	0.86	0.82	0.79	0.76	0.73	0.71	0.68	0.66	0.64	0.62	0.60	0.59	0.57	0.55	0.54	0.53	0.51	0.50
110.0	0.87	0.83	0.80	0.77	0.74	0.71	0.69	0.67	0.65	0.63	0.61	0.59	0.57	0.56	0.54	0.53	0.52	0.50	0.49	0.48
120.0	0.81	0.78	0.75	0.72	0.70	0.67	0.65	0.63	0.61	0.59	0.58	0.56	0.55	0.53	0.52	0.51	0.49	0.48	0.47	0.46
130.0	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	0.47	0.46	0.45	0.44
140.0	0.71	0.68	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	0.47	0.46	0.45	0.44	0.43
150.0	0.67	0.65	0.63	0.61	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	0.42	0.41
160.0	0.63	0.61	0.60	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	0.42	0.41	0.40
170.0	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	0.41	0.40	0.40	0.39
180.0	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	0.42	0.42	0.41	0.40	0.39	0.38	0.38
190.0	0.55	0.53	0.52	0.51	0.50	0.48	0.47	0.46	0.45	0.44	0.44	0.43	0.42	0.41	0.40	0.39	0.39	0.38	0.37	0.37

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 2.00
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 50.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	22.12	15.60	12.61	10.79	9.53	8.60	7.87	7.27	6.78	6.37	6.01	5.69	5.42	5.17	4.95	4.75	4.56	4.40	4.24	4.10
10.0	13.25	11.21	9.84	8.84	8.06	7.44	6.92	6.48	6.11	5.79	5.50	5.25	5.02	4.81	4.63	4.45	4.30	4.15	4.02	3.89
20.0	10.17	9.09	8.26	7.60	7.06	6.61	6.22	5.88	5.59	5.33	5.09	4.88	4.69	4.51	4.35	4.20	4.07	3.94	3.82	3.71
30.0	8.48	7.78	7.21	6.74	6.33	5.98	5.68	5.41	5.16	4.95	4.75	4.57	4.41	4.25	4.11	3.98	3.86	3.75	3.64	3.54
40.0	7.36	6.87	6.45	6.08	5.77	5.49	5.24	5.02	4.81	4.63	4.46	4.31	4.16	4.03	3.91	3.79	3.68	3.58	3.49	3.40
50.0	6.57	6.19	5.86	5.57	5.32	5.09	4.88	4.69	4.52	4.36	4.21	4.08	3.95	3.84	3.73	3.62	3.52	3.43	3.35	3.26
60.0	5.96	5.66	5.40	5.16	4.95	4.75	4.58	4.41	4.27	4.13	4.00	3.88	3.77	3.66	3.56	3.47	3.38	3.30	3.22	3.14
70.0	5.48	5.23	5.01	4.82	4.64	4.47	4.32	4.18	4.05	3.92	3.81	3.70	3.60	3.51	3.42	3.33	3.25	3.17	3.10	3.03
80.0	5.08	4.88	4.70	4.53	4.37	4.23	4.09	3.97	3.85	3.74	3.64	3.54	3.45	3.37	3.28	3.21	3.13	3.06	2.99	2.93
90.0	4.76	4.58	4.42	4.28	4.14	4.01	3.89	3.78	3.68	3.58	3.49	3.40	3.32	3.24	3.16	3.09	3.02	2.96	2.89	2.83
100.0	4.48	4.33	4.19	4.06	3.94	3.83	3.72	3.62	3.53	3.44	3.35	3.27	3.20	3.12	3.05	2.99	2.92	2.86	2.80	2.74
110.0	4.24	4.11	3.98	3.87	3.76	3.66	3.56	3.47	3.39	3.31	3.23	3.15	3.08	3.02	2.95	2.89	2.83	2.77	2.72	2.66
120.0	4.03	3.91	3.80	3.70	3.60	3.51	3.42	3.34	3.26	3.19	3.11	3.05	2.98	2.92	2.86	2.80	2.74	2.69	2.64	2.59
130.0	3.84	3.74	3.64	3.55	3.46	3.37	3.29	3.22	3.15	3.08	3.01	2.95	2.89	2.83	2.77	2.71	2.66	2.61	2.56	2.51
140.0	3.68	3.58	3.49	3.41	3.33	3.25	3.18	3.11	3.04	2.98	2.91	2.85	2.80	2.74	2.69	2.64	2.59	2.54	2.49	2.45
150.0	3.53	3.45	3.36	3.28	3.21	3.14	3.07	3.01	2.94	2.88	2.82	2.77	2.71	2.66	2.61	2.56	2.52	2.47	2.43	2.38
160.0	3.40	3.32	3.24	3.17	3.10	3.04	2.97	2.91	2.85	2.80	2.74	2.69	2.64	2.59	2.54	2.49	2.45	2.41	2.36	2.32
170.0	3.28	3.20	3.13	3.07	3.00	2.94	2.88	2.82	2.77	2.71	2.66	2.61	2.57	2.52	2.47	2.43	2.39	2.35	2.31	2.27
180.0	3.16	3.10	3.03	2.97	2.91	2.85	2.80	2.74	2.69	2.64	2.59	2.54	2.50	2.45	2.41	2.37	2.33	2.29	2.25	2.21
190.0	3.06	3.00	2.94	2.88	2.82	2.77	2.72	2.67	2.62	2.57	2.52	2.48	2.43	2.39	2.35	2.31	2.27	2.23	2.20	2.16

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 - 50.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	17.94	7.76	5.11	3.84	3.09	2.58	2.22	1.94	1.73	1.55	1.41	1.29	1.19	1.10	1.02	0.95	0.89	0.84	0.79	0.75
10.0	6.11	4.38	3.43	2.82	2.39	2.08	1.84	1.64	1.49	1.35	1.24	1.15	1.07	0.99	0.93	0.87	0.82	0.77	0.73	0.69
20.0	3.85	3.10	2.60	2.24	1.96	1.74	1.57	1.43	1.31	1.20	1.11	1.03	0.97	0.91	0.85	0.80	0.76	0.72	0.68	0.65
30.0	2.84	2.42	2.10	1.86	1.66	1.50	1.37	1.26	1.16	1.08	1.01	0.94	0.88	0.83	0.79	0.74	0.70	0.67	0.64	0.61
40.0	2.26	1.99	1.77	1.59	1.45	1.32	1.22	1.13	1.05	0.98	0.92	0.86	0.81	0.77	0.73	0.69	0.66	0.63	0.60	0.57
50.0	1.89	1.69	1.53	1.39	1.28	1.18	1.10	1.02	0.96	0.90	0.85	0.80	0.76	0.72	0.68	0.65	0.62	0.59	0.56	0.54
60.0	1.62	1.47	1.35	1.24	1.15	1.07	1.00	0.94	0.88	0.83	0.78	0.74	0.70	0.67	0.64	0.61	0.58	0.55	0.53	0.51
70.0	1.42	1.30	1.20	1.12	1.04	0.98	0.92	0.86	0.81	0.77	0.73	0.69	0.66	0.63	0.60	0.57	0.55	0.52	0.50	0.48
80.0	1.27	1.17	1.09	1.02	0.95	0.90	0.85	0.80	0.76	0.72	0.68	0.65	0.62	0.59	0.57	0.54	0.52	0.50	0.48	0.46
90.0	1.14	1.06	1.00	0.93	0.88	0.83	0.79	0.74	0.71	0.67	0.64	0.61	0.58	0.56	0.54	0.51	0.49	0.47	0.45	0.44
100.0	1.04	0.98	0.92	0.86	0.82	0.77	0.73	0.70	0.66	0.63	0.60	0.58	0.55	0.53	0.51	0.49	0.47	0.45	0.43	0.42
110.0	0.96	0.90	0.85	0.80	0.76	0.72	0.69	0.66	0.63	0.60	0.57	0.55	0.52	0.50	0.48	0.46	0.45	0.43	0.41	0.40
120.0	0.88	0.84	0.79	0.75	0.71	0.68	0.65	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
130.0	0.82	0.78	0.74	0.70	0.67	0.64	0.61	0.58	0.56	0.54	0.51	0.49	0.48	0.46	0.44	0.42	0.41	0.39	0.38	0.37
140.0	0.77	0.73	0.70	0.66	0.63	0.61	0.58	0.55	0.53	0.51	0.49	0.47	0.45	0.44	0.42	0.41	0.39	0.38	0.36	0.35
150.0	0.72	0.69	0.66	0.63	0.60	0.57	0.55	0.53	0.51	0.49	0.47	0.45	0.43	0.42	0.40	0.39	0.38	0.36	0.35	0.34
160.0	0.68	0.65	0.62	0.59	0.57	0.55	0.52	0.50	0.48	0.47	0.45	0.43	0.42	0.40	0.39	0.37	0.36	0.35	0.34	0.33
170.0	0.64	0.62	0.59	0.57	0.54	0.52	0.50	0.48	0.46	0.45	0.43	0.41	0.40	0.39	0.37	0.36	0.35	0.34	0.33	0.31
180.0	0.61	0.59	0.56	0.54	0.52	0.50	0.48	0.46	0.44	0.43	0.41	0.40	0.38	0.37	0.36	0.35	0.33	0.32	0.31	0.30
190.0	0.58	0.56	0.54	0.51	0.49	0.48	0.46	0.44	0.43	0.41	0.40	0.38	0.37	0.36	0.35	0.33	0.32	0.31	0.30	0.29

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 - 50.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	18.99	8.28	5.49	4.15	3.36	2.83	2.45	2.16	1.94	1.76	1.61	1.48	1.37	1.28	1.20	1.13	1.07	1.01	0.96	0.92
10.0	6.52	4.70	3.70	3.07	2.63	2.30	2.05	1.85	1.68	1.54	1.43	1.33	1.25	1.17	1.10	1.04	0.99	0.94	0.90	0.86
20.0	4.13	3.35	2.83	2.45	2.17	1.94	1.76	1.62	1.49	1.38	1.29	1.21	1.14	1.08	1.02	0.97	0.93	0.89	0.85	0.81
30.0	3.07	2.63	2.31	2.06	1.86	1.69	1.56	1.44	1.34	1.26	1.18	1.11	1.05	1.00	0.95	0.91	0.87	0.83	0.80	0.77
40.0	2.47	2.18	1.96	1.78	1.63	1.50	1.40	1.30	1.22	1.15	1.09	1.03	0.98	0.94	0.90	0.86	0.82	0.79	0.76	0.73
50.0	2.07	1.87	1.71	1.57	1.45	1.36	1.27	1.19	1.13	1.07	1.01	0.96	0.92	0.88	0.84	0.81	0.78	0.75	0.73	0.70
60.0	1.80	1.65	1.52	1.41	1.32	1.24	1.17	1.10	1.05	0.99	0.95	0.91	0.87	0.83	0.80	0.77	0.74	0.72	0.69	0.67
70.0	1.59	1.47	1.37	1.28	1.21	1.14	1.08	1.03	0.98	0.93	0.89	0.86	0.82	0.79	0.76	0.74	0.71	0.69	0.67	0.65
80.0	1.43	1.34	1.25	1.18	1.12	1.06	1.01	0.96	0.92	0.88	0.85	0.81	0.78	0.76	0.73	0.71	0.68	0.66	0.64	0.62
90.0	1.30	1.23	1.16	1.10	1.04	0.99	0.95	0.91	0.87	0.84	0.80	0.78	0.75	0.72	0.70	0.68	0.66	0.64	0.62	0.60
100.0	1.20	1.14	1.08	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	0.62	0.60	0.58
110.0	1.12	1.06	1.01	0.96	0.92	0.89	0.85	0.82	0.79	0.76	0.74	0.71	0.69	0.67	0.65	0.63	0.61	0.60	0.58	0.57
120.0	1.04	1.00	0.95	0.91	0.88	0.84	0.81	0.78	0.76	0.73	0.71	0.69	0.67	0.65	0.63	0.61	0.59	0.58	0.56	0.55
130.0	0.98	0.94	0.90	0.87	0.83	0.80	0.78	0.75	0.73	0.70	0.68	0.66	0.64	0.63	0.61	0.59	0.58	0.56	0.55	0.54
140.0	0.93	0.89	0.86	0.83	0.80	0.77	0.75	0.72	0.70	0.68	0.66	0.64	0.62	0.61	0.59	0.58	0.56	0.55	0.54	0.52
150.0	0.89	0.85	0.82	0.79	0.77	0.74	0.72	0.70	0.68	0.66	0.64	0.62	0.61	0.59	0.58	0.56	0.55	0.54	0.52	0.51
160.0	0.85	0.82	0.79	0.76	0.74	0.71	0.69	0.67	0.65	0.64	0.62	0.60	0.59	0.57	0.56	0.55	0.54	0.52	0.51	0.50
170.0	0.81	0.78	0.76	0.73	0.71	0.69	0.67	0.65	0.64	0.62	0.60	0.59	0.57	0.56	0.55	0.54	0.52	0.51	0.50	0.49
180.0	0.78	0.76	0.73	0.71	0.69	0.67	0.65	0.63	0.62	0.60	0.59	0.57	0.56	0.55	0.54	0.53	0.51	0.50	0.49	0.48
190.0	0.75	0.73	0.71	0.69	0.67	0.65	0.63	0.62	0.60	0.59	0.57	0.56	0.55	0.54	0.53	0.52	0.50	0.49	0.49	0.48

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*10C

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 - 50.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	21.97	13.21	10.33	8.75	7.70	6.94	6.36	5.90	5.51	5.18	4.90	4.66	4.44	4.25	4.08	3.92	3.77	3.64	3.52	3.41
10.0	11.45	9.41	8.16	7.29	6.63	6.12	5.70	5.34	5.04	4.78	4.55	4.35	4.17	4.00	3.85	3.71	3.58	3.47	3.36	3.26
20.0	8.71	7.68	6.94	6.36	5.90	5.52	5.19	4.91	4.67	4.45	4.26	4.09	3.93	3.79	3.65	3.53	3.42	3.31	3.21	3.12
30.0	7.29	6.64	6.12	5.71	5.35	5.06	4.80	4.57	4.36	4.18	4.01	3.86	3.73	3.60	3.48	3.37	3.27	3.17	3.08	3.00
40.0	6.37	5.91	5.53	5.21	4.93	4.69	4.47	4.28	4.10	3.95	3.80	3.67	3.55	3.43	3.33	3.23	3.14	3.05	2.97	2.89
50.0	5.72	5.37	5.07	4.81	4.59	4.38	4.20	4.03	3.88	3.74	3.62	3.50	3.39	3.29	3.19	3.10	3.02	2.94	2.86	2.79
60.0	5.23	4.95	4.71	4.49	4.30	4.12	3.97	3.82	3.69	3.57	3.45	3.35	3.25	3.15	3.07	2.98	2.91	2.83	2.76	2.69
70.0	4.84	4.61	4.41	4.22	4.06	3.90	3.77	3.64	3.52	3.41	3.31	3.21	3.12	3.03	2.95	2.88	2.80	2.74	2.67	2.61
80.0	4.52	4.33	4.15	3.99	3.85	3.71	3.59	3.47	3.37	3.27	3.17	3.09	3.00	2.92	2.85	2.78	2.71	2.65	2.59	2.53
90.0	4.25	4.08	3.93	3.79	3.66	3.54	3.43	3.33	3.23	3.14	3.05	2.97	2.90	2.82	2.75	2.69	2.63	2.57	2.51	2.45
100.0	4.02	3.87	3.74	3.61	3.50	3.39	3.29	3.20	3.11	3.02	2.95	2.87	2.80	2.73	2.67	2.60	2.55	2.49	2.43	2.38
110.0	3.82	3.69	3.57	3.46	3.35	3.26	3.16	3.08	3.00	2.92	2.85	2.78	2.71	2.65	2.58	2.53	2.47	2.42	2.37	2.32
120.0	3.64	3.53	3.42	3.32	3.22	3.13	3.05	2.97	2.89	2.82	2.75	2.69	2.63	2.57	2.51	2.45	2.40	2.35	2.30	2.26
130.0	3.49	3.38	3.28	3.19	3.10	3.02	2.94	2.87	2.80	2.73	2.67	2.61	2.55	2.49	2.44	2.39	2.34	2.29	2.24	2.20
140.0	3.35	3.25	3.16	3.08	3.00	2.92	2.85	2.78	2.71	2.65	2.59	2.53	2.48	2.42	2.37	2.32	2.28	2.23	2.19	2.14
150.0	3.22	3.13	3.05	2.97	2.90	2.83	2.76	2.69	2.63	2.57	2.52	2.46	2.41	2.36	2.31	2.26	2.22	2.17	2.13	2.09
160.0	3.11	3.03	2.95	2.88	2.81	2.74	2.68	2.61	2.56	2.50	2.45	2.39	2.34	2.30	2.25	2.21	2.16	2.12	2.08	2.04
170.0	3.00	2.93	2.86	2.79	2.72	2.66	2.60	2.54	2.49	2.43	2.38	2.33	2.29	2.24	2.20	2.15	2.11	2.07	2.03	2.00
180.0	2.91	2.84	2.77	2.70	2.64	2.58	2.53	2.47	2.42	2.37	2.32	2.27	2.23	2.19	2.14	2.10	2.06	2.02	1.99	1.95
190.0	2.82	2.75	2.69	2.63	2.57	2.51	2.46	2.41	2.36	2.31	2.26	2.22	2.18	2.13	2.09	2.05	2.02	1.98	1.94	1.91

DISTRIBUTION COEFFICIENT FOR URANIUM

NITRIC ACID CONC. - M - 4.00
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 50.00

URANIUM CONC-G/L	PLUTONIUM CONCENTRATION - 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
TRACE	23.07	7.56	4.71	3.45	2.72	2.25	1.92	1.67	1.47	1.32	1.19	1.08	0.99	0.92	0.85	0.79	0.74	0.69	0.65	0.61
10.0	6.44	4.28	3.22	2.58	2.15	1.85	1.61	1.42	1.29	1.16	1.06	0.98	0.90	0.84	0.78	0.73	0.68	0.64	0.61	0.57
20.0	3.94	3.03	2.46	2.07	1.79	1.57	1.40	1.26	1.14	1.04	0.96	0.89	0.82	0.77	0.72	0.68	0.64	0.60	0.57	0.54
30.0	2.87	2.36	2.00	1.73	1.53	1.37	1.23	1.12	1.03	0.95	0.88	0.81	0.76	0.71	0.67	0.63	0.59	0.56	0.53	0.51
40.0	2.27	1.94	1.69	1.49	1.34	1.21	1.10	1.01	0.93	0.86	0.80	0.75	0.70	0.66	0.62	0.59	0.56	0.53	0.50	0.48
50.0	1.88	1.65	1.46	1.31	1.19	1.09	1.00	0.92	0.85	0.80	0.74	0.70	0.66	0.62	0.58	0.55	0.53	0.50	0.47	0.45
60.0	1.61	1.43	1.29	1.17	1.07	0.98	0.91	0.85	0.79	0.74	0.69	0.65	0.61	0.58	0.55	0.52	0.50	0.47	0.45	0.43
70.0	1.41	1.27	1.16	1.06	0.97	0.90	0.84	0.78	0.73	0.69	0.65	0.61	0.58	0.55	0.52	0.49	0.47	0.45	0.43	0.41
80.0	1.25	1.14	1.05	0.96	0.89	0.83	0.78	0.73	0.68	0.64	0.61	0.57	0.54	0.52	0.49	0.47	0.45	0.43	0.41	0.39
90.0	1.13	1.04	0.96	0.89	0.83	0.77	0.72	0.68	0.64	0.60	0.57	0.54	0.52	0.49	0.47	0.45	0.43	0.41	0.39	0.37
100.0	1.03	0.95	0.88	0.82	0.77	0.72	0.68	0.64	0.60	0.57	0.54	0.51	0.49	0.47	0.44	0.42	0.41	0.39	0.37	0.36
110.0	0.94	0.88	0.82	0.76	0.72	0.67	0.64	0.60	0.57	0.54	0.51	0.49	0.46	0.44	0.42	0.40	0.39	0.37	0.36	0.34
120.0	0.87	0.81	0.76	0.71	0.67	0.63	0.60	0.57	0.54	0.51	0.49	0.46	0.44	0.42	0.40	0.39	0.37	0.36	0.34	0.33
130.0	0.81	0.76	0.71	0.67	0.63	0.60	0.57	0.54	0.51	0.49	0.46	0.44	0.42	0.40	0.39	0.37	0.36	0.34	0.33	0.31
140.0	0.76	0.71	0.67	0.63	0.60	0.57	0.54	0.51	0.49	0.46	0.44	0.42	0.40	0.39	0.37	0.36	0.34	0.33	0.31	0.30
150.0	0.71	0.67	0.63	0.60	0.57	0.54	0.51	0.49	0.46	0.44	0.42	0.40	0.39	0.37	0.36	0.34	0.33	0.32	0.30	0.29
160.0	0.67	0.63	0.60	0.57	0.54	0.51	0.49	0.46	0.44	0.42	0.41	0.39	0.37	0.36	0.34	0.33	0.32	0.30	0.29	0.28
170.0	0.64	0.60	0.57	0.54	0.51	0.49	0.47	0.44	0.42	0.41	0.39	0.37	0.36	0.34	0.33	0.32	0.30	0.29	0.28	0.27
180.0	0.60	0.57	0.54	0.51	0.49	0.47	0.45	0.43	0.41	0.39	0.37	0.36	0.34	0.33	0.32	0.30	0.29	0.28	0.27	0.26
190.0	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	0.31	0.29	0.28	0.27	0.26	0.25

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - M - 4.00
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 50.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	28.87	9.54	6.00	4.43	3.53	2.95	2.53	2.22	1.98	1.79	1.63	1.50	1.39	1.30	1.21	1.14	1.08	1.02	0.97	0.92
10.0	8.21	5.50	4.18	3.38	2.85	2.47	2.18	1.95	1.77	1.62	1.49	1.38	1.29	1.21	1.14	1.07	1.02	0.97	0.92	0.88
20.0	5.11	3.97	3.26	2.77	2.41	2.14	1.92	1.75	1.60	1.48	1.37	1.28	1.21	1.14	1.07	1.02	0.97	0.92	0.88	0.85
30.0	3.80	3.15	2.70	2.36	2.10	1.90	1.73	1.59	1.47	1.37	1.28	1.20	1.14	1.08	1.02	0.97	0.93	0.89	0.85	0.82
40.0	3.07	2.64	2.33	2.08	1.88	1.72	1.58	1.47	1.37	1.28	1.20	1.14	1.08	1.02	0.98	0.93	0.89	0.86	0.82	0.79
50.0	2.59	2.29	2.06	1.86	1.71	1.58	1.46	1.37	1.28	1.21	1.14	1.08	1.03	0.98	0.94	0.90	0.86	0.83	0.80	0.77
60.0	2.27	2.04	1.85	1.70	1.57	1.46	1.37	1.28	1.21	1.14	1.09	1.03	0.99	0.94	0.90	0.87	0.83	0.80	0.78	0.75
70.0	2.03	1.85	1.70	1.57	1.46	1.37	1.29	1.21	1.15	1.09	1.04	0.99	0.95	0.91	0.87	0.84	0.81	0.78	0.76	0.73
80.0	1.84	1.70	1.57	1.47	1.37	1.29	1.22	1.16	1.10	1.05	1.00	0.96	0.92	0.88	0.85	0.82	0.79	0.76	0.74	0.72
90.0	1.70	1.58	1.47	1.38	1.30	1.23	1.16	1.11	1.05	1.01	0.97	0.93	0.89	0.86	0.83	0.80	0.77	0.75	0.73	0.70
100.0	1.58	1.48	1.39	1.31	1.24	1.17	1.12	1.06	1.02	0.98	0.94	0.90	0.87	0.84	0.81	0.78	0.76	0.73	0.71	0.69
110.0	1.49	1.40	1.32	1.25	1.18	1.13	1.07	1.03	0.99	0.95	0.91	0.88	0.85	0.82	0.79	0.77	0.74	0.72	0.70	0.68
120.0	1.41	1.33	1.26	1.19	1.14	1.09	1.04	1.00	0.96	0.92	0.89	0.86	0.83	0.80	0.78	0.75	0.73	0.71	0.69	0.68
130.0	1.34	1.27	1.21	1.15	1.10	1.05	1.01	0.97	0.93	0.90	0.87	0.84	0.81	0.79	0.77	0.74	0.72	0.70	0.69	0.67
140.0	1.28	1.22	1.16	1.11	1.07	1.02	0.98	0.95	0.91	0.88	0.85	0.83	0.80	0.78	0.76	0.73	0.72	0.70	0.68	0.66
150.0	1.24	1.18	1.13	1.08	1.04	1.00	0.96	0.93	0.90	0.87	0.84	0.81	0.79	0.77	0.75	0.73	0.71	0.69	0.67	0.66
160.0	1.20	1.14	1.10	1.05	1.01	0.98	0.94	0.91	0.88	0.85	0.83	0.80	0.78	0.76	0.74	0.72	0.70	0.69	0.67	0.66
170.0	1.16	1.11	1.07	1.03	0.99	0.96	0.93	0.90	0.87	0.84	0.82	0.79	0.77	0.75	0.73	0.72	0.70	0.68	0.67	0.65
180.0	1.13	1.09	1.05	1.01	0.97	0.94	0.91	0.88	0.86	0.83	0.81	0.79	0.77	0.75	0.73	0.71	0.70	0.68	0.67	0.65
190.0	1.11	1.07	1.03	0.99	0.96	0.93	0.90	0.87	0.85	0.83	0.80	0.78	0.76	0.74	0.73	0.71	0.70	0.68	0.67	0.65

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*100

NITRIC ACID CONC. - M - 4.00
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 50.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	20.66	11.17	8.61	7.27	6.41	5.78	5.30	4.92	4.60	4.33	4.10	3.90	3.72	3.56	3.41	3.28	3.16	3.05	2.95	2.85
10.0	10.18	8.15	6.99	6.21	5.63	5.19	4.82	4.52	4.26	4.04	3.85	3.67	3.52	3.38	3.25	3.13	3.02	2.92	2.83	2.74
20.0	7.78	6.75	6.04	5.50	5.08	4.74	4.45	4.20	3.99	3.80	3.63	3.48	3.34	3.22	3.10	3.00	2.90	2.81	2.72	2.64
30.0	6.55	5.89	5.39	4.99	4.66	4.38	4.15	3.94	3.76	3.59	3.44	3.31	3.19	3.08	2.97	2.88	2.79	2.70	2.63	2.55
40.0	5.75	5.28	4.90	4.59	4.32	4.09	3.89	3.72	3.56	3.41	3.28	3.16	3.05	2.95	2.86	2.77	2.69	2.61	2.54	2.47
50.0	5.19	4.83	4.53	4.27	4.05	3.85	3.68	3.52	3.38	3.25	3.14	3.03	2.93	2.84	2.75	2.67	2.59	2.52	2.45	2.39
60.0	4.76	4.47	4.22	4.00	3.81	3.65	3.49	3.36	3.23	3.12	3.01	2.91	2.82	2.73	2.65	2.58	2.51	2.44	2.38	2.32
70.0	4.42	4.18	3.97	3.78	3.61	3.47	3.33	3.21	3.09	2.99	2.89	2.80	2.72	2.64	2.56	2.49	2.43	2.37	2.31	2.25
80.0	4.14	3.93	3.75	3.59	3.44	3.31	3.19	3.08	2.97	2.88	2.79	2.70	2.63	2.55	2.48	2.42	2.36	2.30	2.24	2.19
90.0	3.90	3.72	3.56	3.42	3.29	3.17	3.06	2.96	2.86	2.77	2.69	2.61	2.54	2.47	2.41	2.35	2.29	2.23	2.18	2.13
100.0	3.70	3.54	3.40	3.27	3.15	3.04	2.94	2.85	2.76	2.68	2.60	2.53	2.46	2.40	2.34	2.28	2.22	2.17	2.12	2.07
110.0	3.52	3.38	3.25	3.14	3.03	2.93	2.84	2.75	2.67	2.59	2.52	2.45	2.39	2.33	2.27	2.22	2.16	2.11	2.07	2.02
120.0	3.37	3.24	3.12	3.02	2.92	2.83	2.74	2.66	2.58	2.51	2.45	2.33	2.32	2.26	2.21	2.16	2.11	2.06	2.01	1.97
130.0	3.23	3.11	3.01	2.91	2.82	2.73	2.65	2.58	2.51	2.44	2.38	2.32	2.26	2.20	2.15	2.10	2.05	2.01	1.97	1.92
140.0	3.10	3.00	2.90	2.81	2.73	2.65	2.57	2.50	2.43	2.37	2.31	2.25	2.20	2.15	2.10	2.05	2.00	1.96	1.92	1.88
150.0	2.99	2.89	2.80	2.72	2.64	2.57	2.50	2.43	2.37	2.31	2.25	2.20	2.14	2.09	2.05	2.00	1.96	1.92	1.88	1.84
160.0	2.89	2.80	2.72	2.64	2.56	2.49	2.43	2.36	2.30	2.25	2.19	2.14	2.09	2.04	2.00	1.95	1.91	1.87	1.83	1.80
170.0	2.80	2.71	2.63	2.56	2.49	2.42	2.36	2.30	2.24	2.19	2.14	2.09	2.04	2.00	1.95	1.91	1.87	1.83	1.79	1.76
180.0	2.71	2.63	2.56	2.49	2.42	2.36	2.30	2.24	2.19	2.14	2.09	2.04	1.99	1.95	1.91	1.87	1.83	1.79	1.76	1.72
190.0	2.63	2.56	2.49	2.42	2.36	2.30	2.24	2.19	2.14	2.09	2.04	1.99	1.95	1.91	1.87	1.83	1.79	1.76	1.72	1.69

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 - 50.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	24.11	6.56	3.98	2.88	2.26	1.85	1.57	1.36	1.20	1.07	0.97	0.88	0.80	0.74	0.68	0.63	0.59	0.55	0.52	0.49
10.0	6.33	3.91	2.84	2.24	1.84	1.56	1.36	1.20	1.07	0.96	0.87	0.80	0.74	0.68	0.63	0.59	0.55	0.52	0.49	0.46
20.0	3.86	2.82	2.22	1.83	1.56	1.35	1.19	1.07	0.96	0.87	0.80	0.74	0.68	0.63	0.59	0.55	0.52	0.49	0.46	0.43
30.0	2.81	2.22	1.83	1.56	1.35	1.19	1.07	0.96	0.87	0.80	0.74	0.68	0.63	0.59	0.55	0.52	0.49	0.46	0.43	0.41
40.0	2.22	1.83	1.56	1.35	1.19	1.07	0.96	0.88	0.80	0.74	0.68	0.63	0.59	0.55	0.52	0.49	0.46	0.44	0.41	0.39
50.0	1.84	1.57	1.36	1.20	1.07	0.97	0.88	0.80	0.74	0.68	0.64	0.59	0.55	0.52	0.49	0.46	0.44	0.41	0.39	0.37
60.0	1.58	1.37	1.21	1.08	0.97	0.88	0.81	0.74	0.69	0.64	0.59	0.56	0.52	0.49	0.46	0.44	0.41	0.39	0.37	0.35
70.0	1.38	1.22	1.08	0.98	0.89	0.81	0.75	0.69	0.64	0.60	0.56	0.52	0.49	0.46	0.44	0.42	0.39	0.37	0.36	0.34
80.0	1.23	1.09	0.99	0.89	0.82	0.75	0.69	0.65	0.60	0.56	0.53	0.50	0.47	0.44	0.42	0.40	0.38	0.36	0.34	0.32
90.0	1.11	1.00	0.90	0.83	0.76	0.70	0.65	0.61	0.57	0.53	0.50	0.47	0.44	0.42	0.40	0.38	0.36	0.34	0.32	0.31
100.0	1.01	0.91	0.83	0.77	0.71	0.66	0.61	0.57	0.53	0.50	0.47	0.45	0.42	0.40	0.38	0.36	0.34	0.33	0.31	0.30
110.0	0.93	0.84	0.77	0.71	0.66	0.62	0.57	0.54	0.51	0.48	0.45	0.42	0.40	0.38	0.36	0.34	0.33	0.31	0.30	0.29
120.0	0.86	0.78	0.72	0.67	0.62	0.58	0.54	0.51	0.48	0.45	0.43	0.40	0.38	0.36	0.35	0.33	0.31	0.30	0.29	0.27
130.0	0.80	0.73	0.68	0.63	0.59	0.55	0.51	0.48	0.46	0.43	0.41	0.39	0.37	0.35	0.33	0.32	0.30	0.29	0.28	0.26
140.0	0.74	0.69	0.64	0.59	0.56	0.52	0.49	0.46	0.44	0.41	0.39	0.37	0.35	0.33	0.32	0.30	0.29	0.28	0.27	0.25
150.0	0.70	0.65	0.60	0.56	0.53	0.50	0.47	0.44	0.42	0.39	0.37	0.35	0.34	0.32	0.31	0.29	0.28	0.27	0.26	0.25
160.0	0.66	0.61	0.57	0.53	0.50	0.47	0.44	0.42	0.40	0.38	0.36	0.34	0.32	0.31	0.29	0.28	0.27	0.26	0.25	0.24
170.0	0.62	0.58	0.54	0.51	0.48	0.45	0.43	0.40	0.38	0.36	0.34	0.33	0.31	0.30	0.28	0.27	0.26	0.25	0.24	0.23
180.0	0.59	0.55	0.52	0.49	0.46	0.43	0.41	0.39	0.37	0.35	0.33	0.31	0.30	0.29	0.27	0.26	0.25	0.24	0.23	0.22
190.0	0.56	0.53	0.49	0.46	0.44	0.41	0.39	0.37	0.35	0.33	0.32	0.30	0.29	0.28	0.26	0.25	0.24	0.23	0.22	0.21

DISTRIBUTION COEFFICIENT FOR PLUTONIUM

NITRIC ACID CONC. - N - 5.00
TBP - VOLUME FRACTION - 0.300
INEXTRACTABLE NITRATE-M- 0.0
PLUTONIUM(III) -G/L- 0.0
TEMPERATURE - DEG. C - 50.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	36.79	10.11	6.20	4.53	3.59	2.98	2.56	2.24	1.99	1.80	1.64	1.51	1.39	1.30	1.21	1.14	1.08	1.02	0.97	0.92
10.0	9.96	6.21	4.57	3.63	3.02	2.60	2.28	2.03	1.83	1.67	1.54	1.42	1.32	1.24	1.17	1.10	1.04	0.99	0.94	0.90
20.0	6.26	4.63	3.69	3.08	2.64	2.32	2.07	1.87	1.71	1.57	1.45	1.35	1.27	1.19	1.13	1.07	1.01	0.96	0.92	0.88
30.0	4.71	3.76	3.14	2.70	2.37	2.12	1.91	1.75	1.61	1.49	1.39	1.30	1.22	1.15	1.09	1.04	0.99	0.94	0.90	0.87
40.0	3.85	3.21	2.77	2.43	2.17	1.96	1.79	1.65	1.53	1.42	1.33	1.25	1.18	1.12	1.07	1.02	0.97	0.93	0.89	0.86
50.0	3.30	2.84	2.49	2.23	2.01	1.84	1.69	1.57	1.46	1.37	1.29	1.22	1.15	1.10	1.04	1.00	0.95	0.92	0.88	0.85
60.0	2.93	2.57	2.29	2.07	1.89	1.74	1.61	1.50	1.41	1.33	1.25	1.19	1.13	1.07	1.03	0.98	0.94	0.91	0.87	0.84
70.0	2.65	2.37	2.14	1.95	1.79	1.66	1.55	1.45	1.37	1.29	1.22	1.16	1.11	1.06	1.01	0.97	0.93	0.90	0.87	0.84
80.0	2.45	2.21	2.01	1.85	1.72	1.60	1.50	1.41	1.33	1.26	1.20	1.14	1.09	1.05	1.00	0.97	0.93	0.90	0.87	0.84
90.0	2.29	2.09	1.92	1.78	1.65	1.55	1.46	1.38	1.30	1.24	1.18	1.13	1.08	1.04	1.00	0.96	0.93	0.90	0.87	0.84
100.0	2.16	1.99	1.84	1.71	1.60	1.51	1.42	1.35	1.28	1.22	1.17	1.12	1.07	1.03	0.99	0.96	0.93	0.90	0.87	0.84
110.0	2.07	1.91	1.78	1.66	1.56	1.48	1.40	1.33	1.27	1.21	1.16	1.11	1.07	1.03	0.99	0.96	0.93	0.90	0.87	0.85
120.0	1.99	1.85	1.73	1.63	1.53	1.45	1.38	1.32	1.26	1.20	1.15	1.11	1.07	1.03	1.00	0.97	0.94	0.91	0.88	0.86
130.0	1.93	1.80	1.69	1.60	1.51	1.44	1.37	1.31	1.25	1.20	1.15	1.11	1.07	1.04	1.00	0.97	0.94	0.92	0.89	0.87
140.0	1.88	1.77	1.66	1.58	1.50	1.42	1.36	1.30	1.25	1.20	1.16	1.12	1.08	1.04	1.01	0.98	0.95	0.93	0.90	0.88
150.0	1.85	1.74	1.65	1.56	1.49	1.42	1.36	1.30	1.25	1.21	1.16	1.12	1.09	1.06	1.02	1.00	0.97	0.94	0.92	0.90
160.0	1.82	1.72	1.63	1.55	1.48	1.42	1.36	1.31	1.26	1.22	1.17	1.14	1.10	1.07	1.04	1.01	0.99	0.96	0.94	0.92
170.0	1.81	1.71	1.63	1.55	1.49	1.42	1.37	1.32	1.27	1.23	1.19	1.15	1.12	1.09	1.06	1.03	1.01	0.98	0.96	0.94
180.0	1.80	1.71	1.63	1.56	1.49	1.43	1.38	1.33	1.29	1.25	1.21	1.17	1.14	1.11	1.08	1.05	1.03	1.01	0.99	0.97
190.0	1.80	1.71	1.64	1.57	1.51	1.45	1.40	1.35	1.31	1.27	1.23	1.20	1.17	1.14	1.11	1.08	1.06	1.04	1.02	1.00

DISTRIBUTION COEFFICIENT FOR NITRIC ACID*10C

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 - 50.00

PLUTONIUM CONCENTRATION - G/L

URANIUM 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
TRACE	18.62	9.37	7.23	6.11	5.38	4.86	4.46	4.13	3.87	3.64	3.45	3.28	3.13	3.00	2.88	2.77	2.67	2.57	2.49	2.41
10.0	9.19	7.14	6.05	5.34	4.83	4.43	4.11	3.85	3.63	3.44	3.27	3.12	2.99	2.87	2.76	2.66	2.56	2.48	2.40	2.33
20.0	7.08	6.01	5.31	4.80	4.41	4.10	3.84	3.62	3.42	3.26	3.11	2.98	2.86	2.75	2.65	2.56	2.47	2.39	2.32	2.25
30.0	5.99	5.30	4.79	4.40	4.09	3.83	3.61	3.42	3.25	3.10	2.97	2.85	2.74	2.64	2.55	2.47	2.39	2.31	2.25	2.18
40.0	5.29	4.79	4.40	4.08	3.82	3.60	3.41	3.24	3.10	2.96	2.85	2.74	2.64	2.55	2.46	2.38	2.31	2.24	2.18	2.12
50.0	4.79	4.40	4.08	3.82	3.60	3.41	3.24	3.09	2.96	2.84	2.73	2.63	2.54	2.46	2.38	2.31	2.24	2.17	2.11	2.06
60.0	4.40	4.09	3.82	3.60	3.41	3.24	3.09	2.96	2.84	2.73	2.63	2.54	2.46	2.38	2.30	2.24	2.17	2.11	2.05	2.00
70.0	4.10	3.83	3.61	3.42	3.25	3.10	2.96	2.84	2.73	2.63	2.54	2.46	2.38	2.30	2.23	2.17	2.11	2.05	2.00	1.95
80.0	3.85	3.62	3.42	3.25	3.10	2.97	2.85	2.74	2.64	2.54	2.46	2.38	2.30	2.23	2.17	2.11	2.05	2.00	1.95	1.90
90.0	3.63	3.44	3.26	3.11	2.97	2.85	2.74	2.64	2.55	2.46	2.38	2.31	2.24	2.17	2.11	2.05	2.00	1.95	1.90	1.85
100.0	3.45	3.28	3.12	2.98	2.86	2.75	2.64	2.55	2.46	2.38	2.31	2.24	2.17	2.11	2.05	2.00	1.95	1.90	1.85	1.80
110.0	3.29	3.14	3.00	2.87	2.76	2.65	2.56	2.47	2.39	2.31	2.24	2.18	2.11	2.05	2.00	1.95	1.90	1.85	1.80	1.76
120.0	3.15	3.01	2.88	2.77	2.66	2.56	2.48	2.39	2.32	2.25	2.18	2.12	2.06	2.00	1.95	1.90	1.85	1.81	1.76	1.72
130.0	3.03	2.90	2.78	2.67	2.58	2.49	2.40	2.32	2.25	2.18	2.12	2.06	2.01	1.95	1.90	1.85	1.81	1.76	1.72	1.68
140.0	2.92	2.80	2.69	2.59	2.50	2.41	2.33	2.26	2.19	2.13	2.07	2.01	1.96	1.90	1.86	1.81	1.77	1.72	1.68	1.65
150.0	2.82	2.70	2.60	2.51	2.42	2.34	2.27	2.20	2.13	2.07	2.02	1.96	1.91	1.86	1.81	1.77	1.73	1.69	1.65	1.61
160.0	2.72	2.62	2.52	2.44	2.36	2.28	2.21	2.14	2.08	2.02	1.97	1.91	1.86	1.82	1.77	1.73	1.69	1.65	1.61	1.58
170.0	2.64	2.54	2.45	2.37	2.29	2.22	2.15	2.09	2.03	1.97	1.92	1.87	1.82	1.78	1.73	1.69	1.65	1.61	1.58	1.54
180.0	2.56	2.47	2.39	2.31	2.23	2.16	2.10	2.04	1.98	1.93	1.88	1.83	1.78	1.74	1.70	1.66	1.62	1.58	1.55	1.51
190.0	2.49	2.40	2.32	2.25	2.18	2.11	2.05	1.99	1.94	1.88	1.84	1.79	1.74	1.70	1.66	1.62	1.58	1.55	1.51	1.48

ORNL-DWG 79-18959

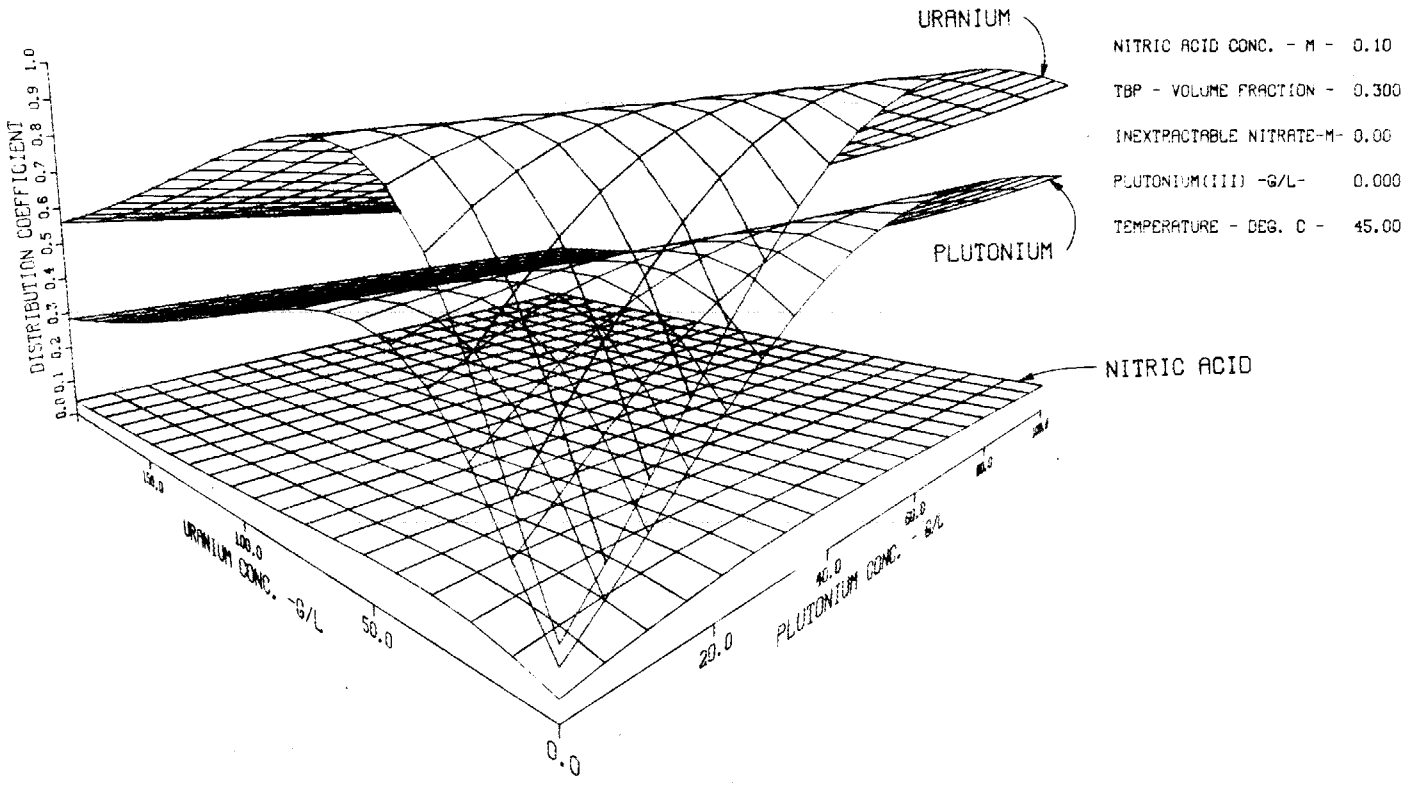

Fig. B.1. Distribution coefficient map for uranium, plutonium(IV), and nitric acid in the acid-water/TBP system containing 0 to 200 g/ℓ U, 0 to 100 g/ℓ Pu(IV), 0.1 *M* HNO_3 in the aqueous phase, and 30% TBP at 45°C.

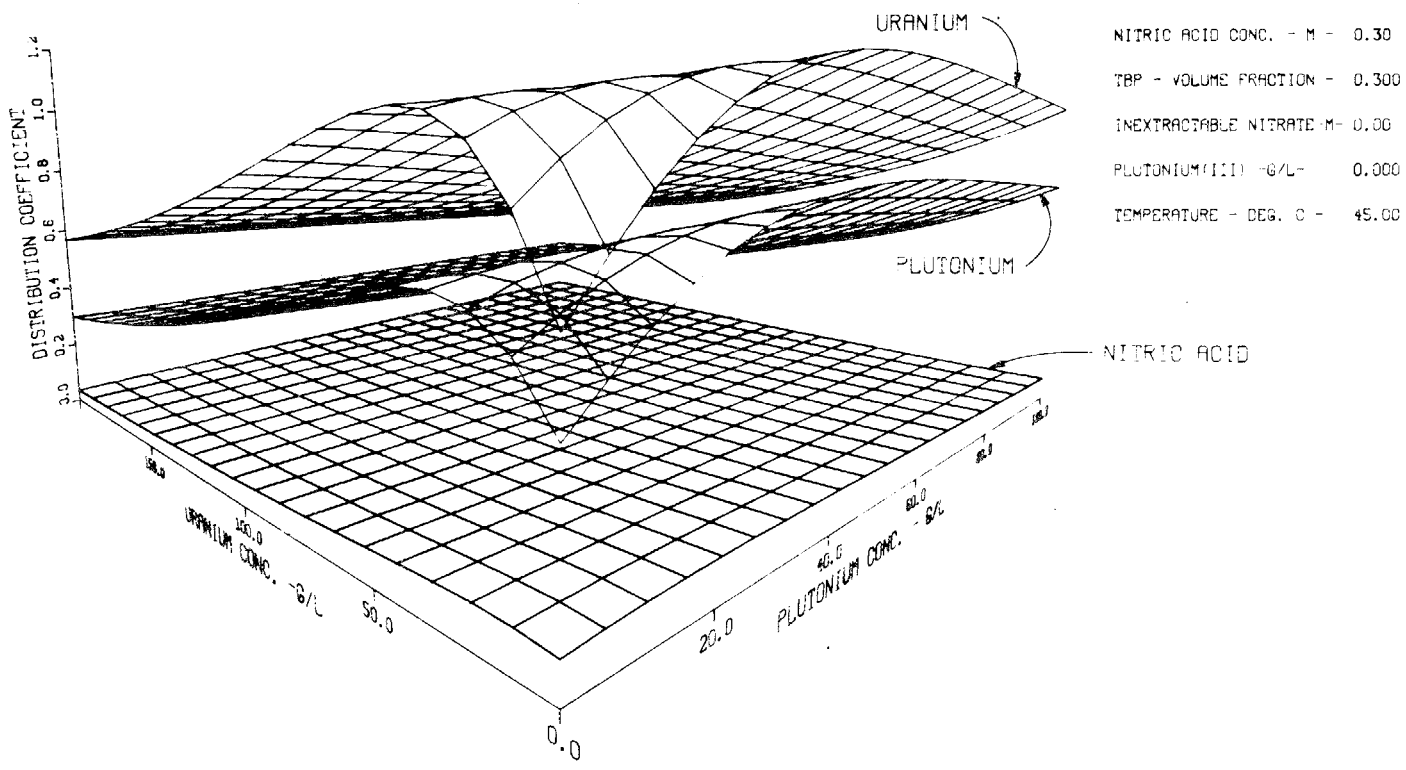

Fig. B.2. Distribution coefficient map for uranium, plutonium(IV), and nitric acid in the acid-water/TBP system containing 0 to 200 g/ℓ U, 0 to 100 g/ℓ Pu(IV), 0.3 *M* HNO_3 in the aqueous phase, and 30% TBP at 45°C.

ORNL-DWG 79-18956

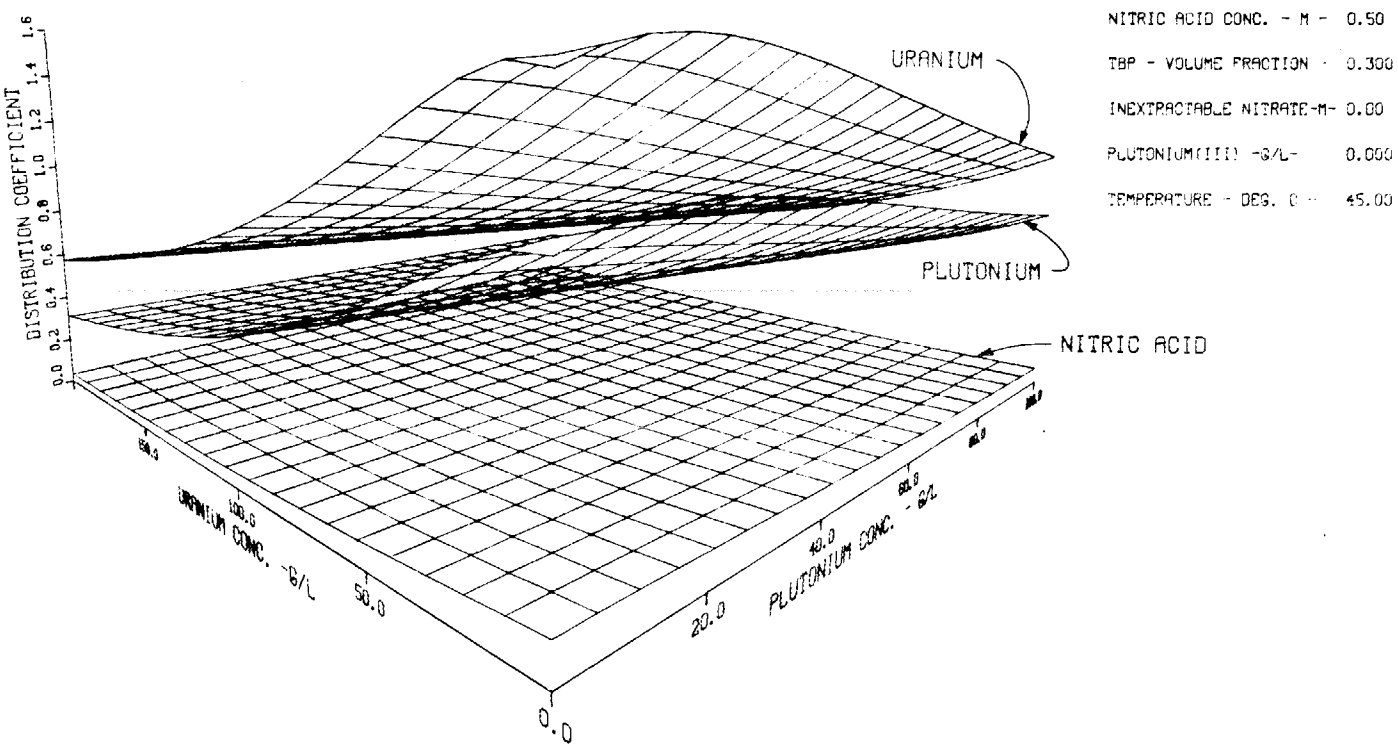

Fig. B.3. Distribution coefficient map for uranium, plutonium(IV), and nitric acid in the acid-water/TBP system containing 0 to 200 g/ℓ U, 0 to 100 g/ℓ Pu(IV), 0.5 *M* HNO_3 in the aqueous phase, and 30% TBP at 45°C.

ORNL-DWG 79-18960

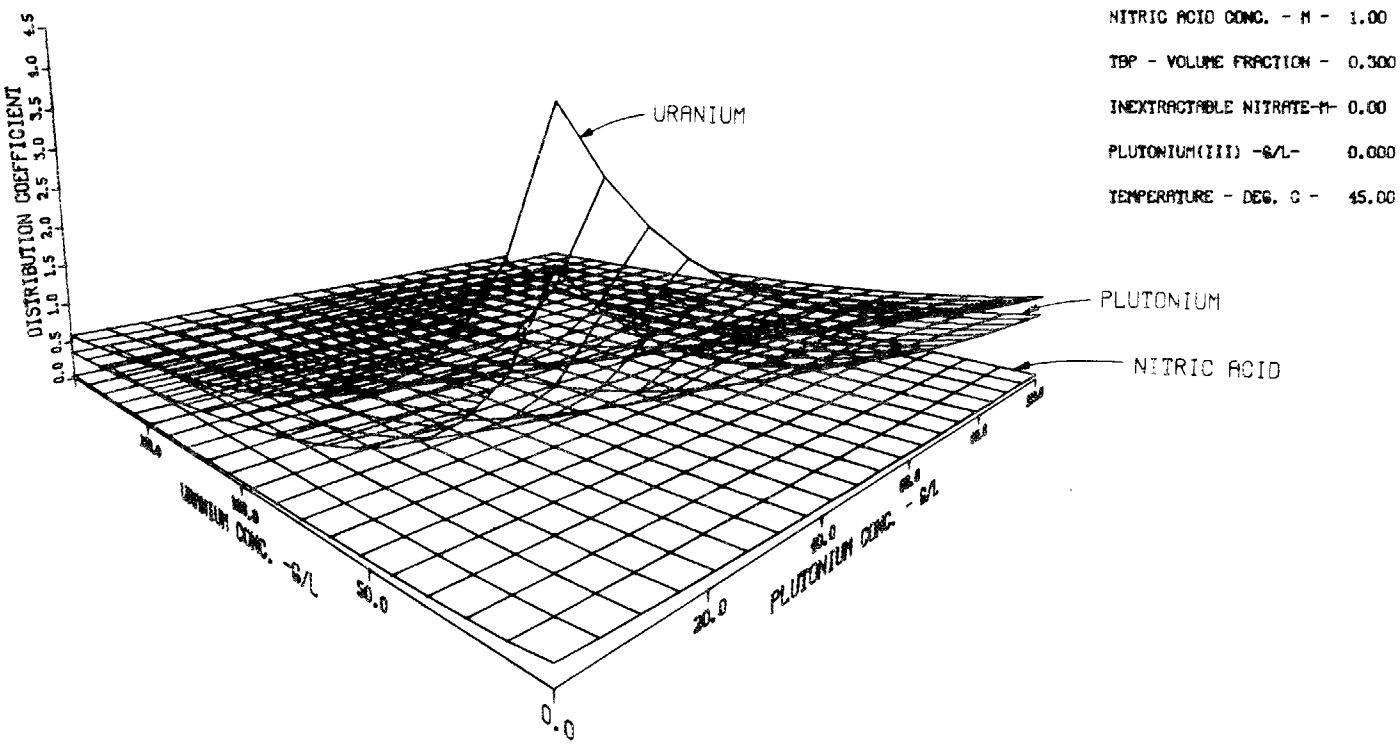

Fig. B.4. Distribution coefficient map for uranium, plutonium(IV), and nitric acid in the acid-water/TBP system containing 0 to 200 g/ℓ U, 0 to 100 g/ℓ Pu(IV), 1.0 *M* HNO_3 in the aqueous phase, and 30% TBP at 45°C.

ORNL-DWG 79-18958

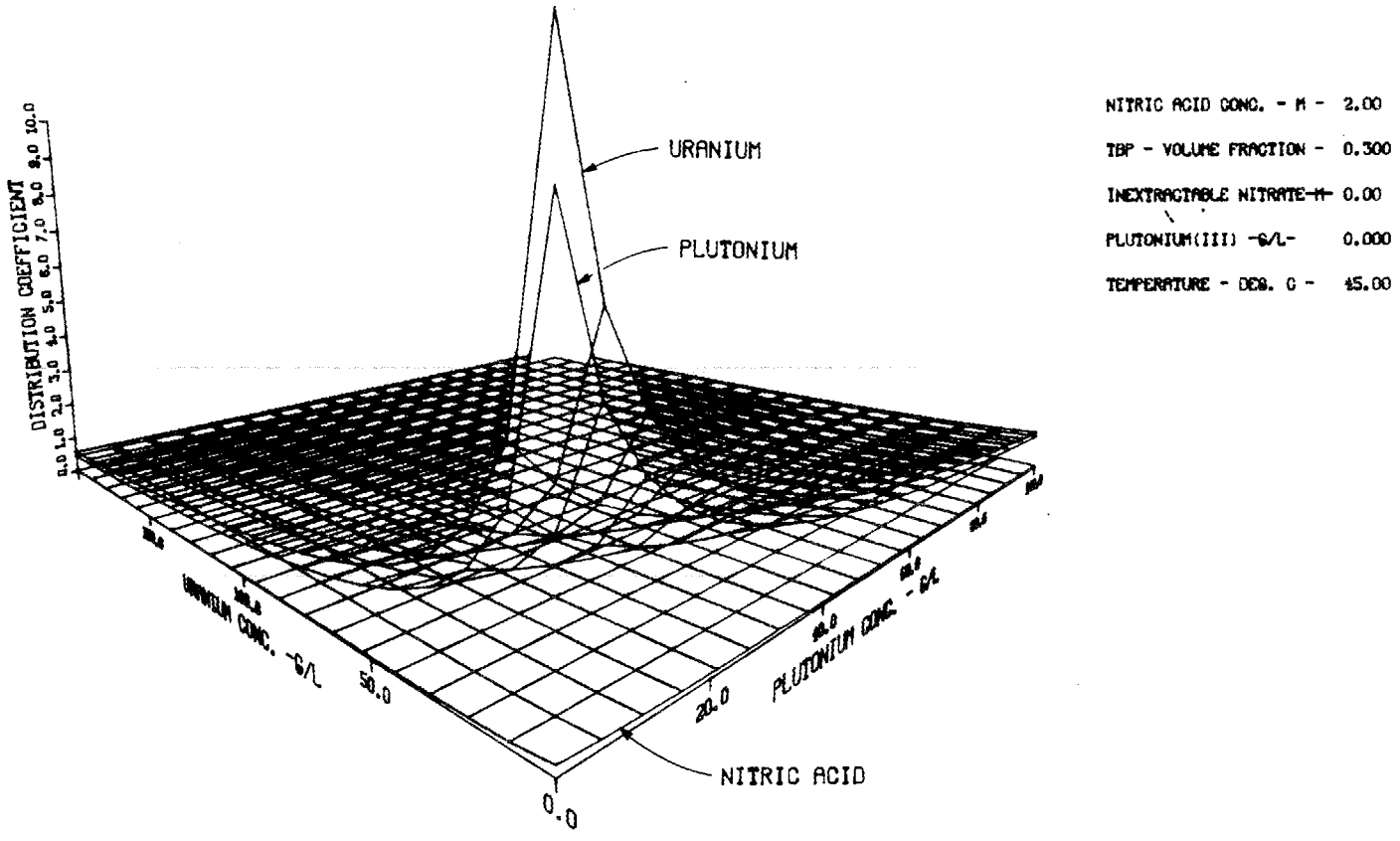

Fig. B.5. Distribution coefficient map for uranium, plutonium(IV), and nitric acid in the acid-water/TBP system containing 0 to 200 g/ℓ U, 0 to 100 g/ℓ Pu(IV), 2.0 *M* HNO_3 in the aqueous phase, and 30% TBP at 45°C.

ORNL-DWG 79-18954

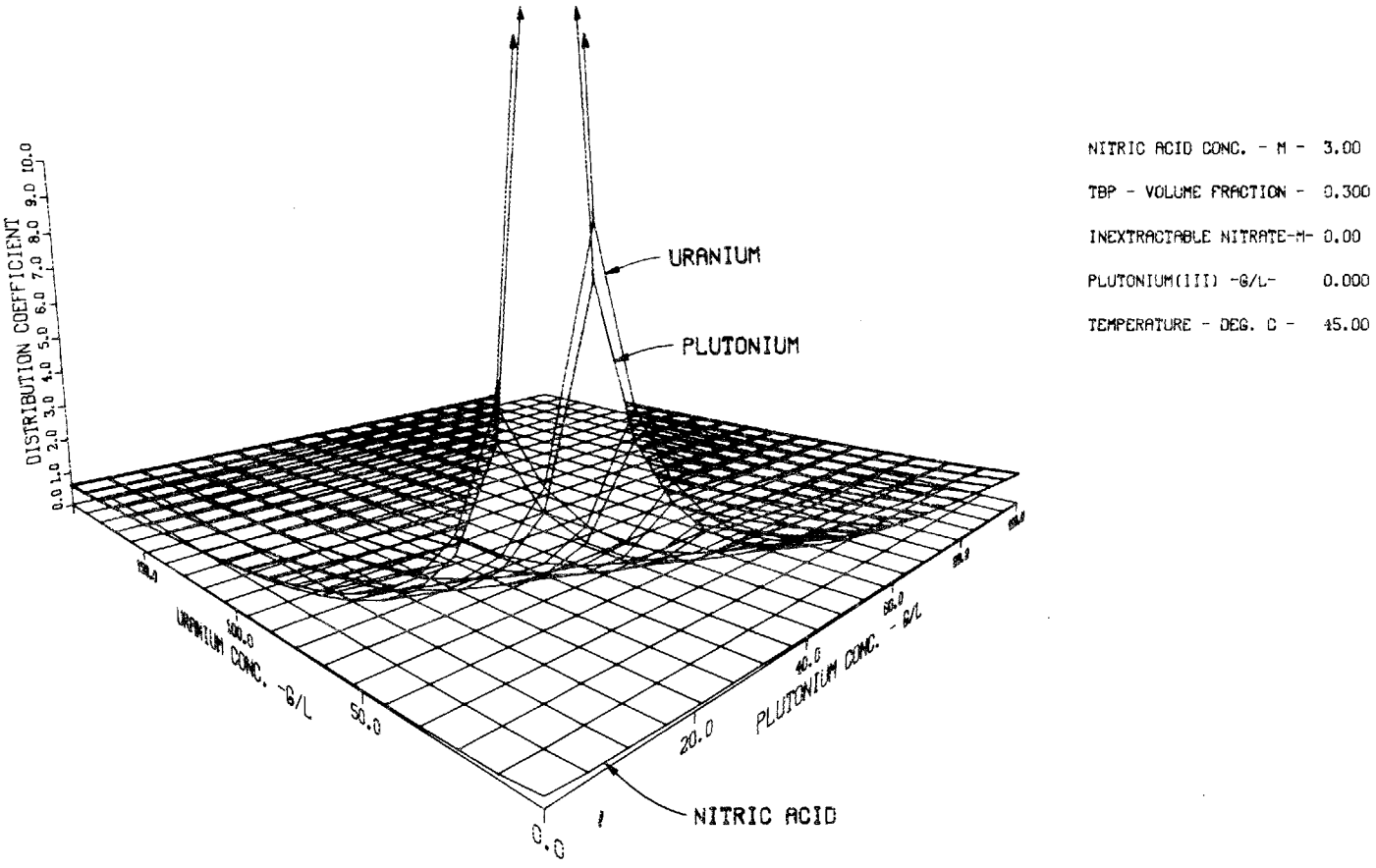

Fig. B.6. Distribution coefficient map for uranium, plutonium(IV), and nitric acid in the acid-water/TBP system containing 0 to 200 g/ℓ U, 0 to 100 g/ℓ Pu(IV), 3.0 *M* HNO_3 in the aqueous phase, and 30% TBP at 45°C.

ORNL-DWG 79-18953

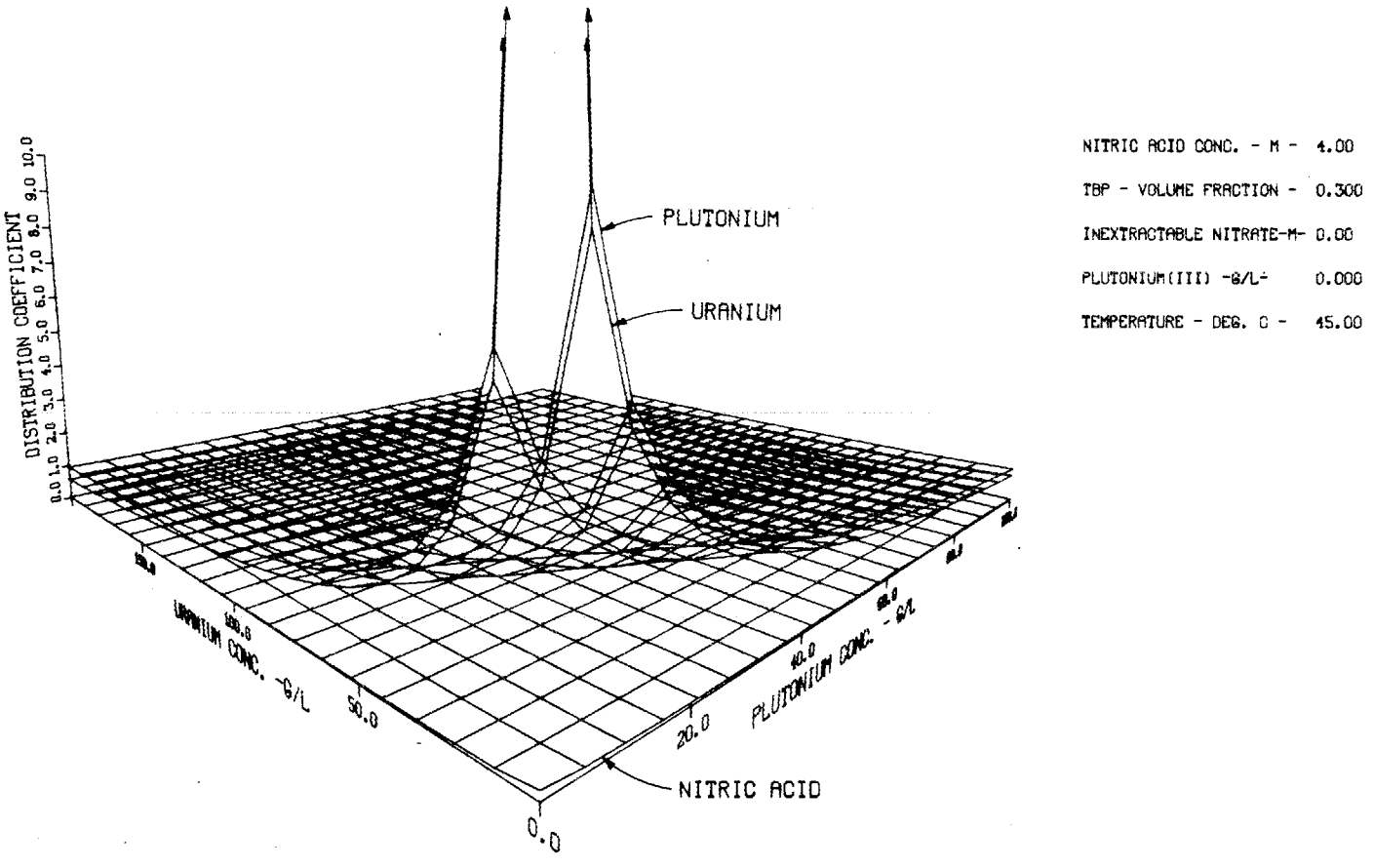

Fig. B.7. Distribution coefficient map for uranium, plutonium(IV), and nitric acid in the acid-water/TBP system containing 0 to 200 g/ℓ U, 0 to 100 g/ℓ Pu(IV), 4.0 *M* HNO_3 in the aqueous phase, and 30% TBP at 45°C.

ORNL-DWG 79-18955

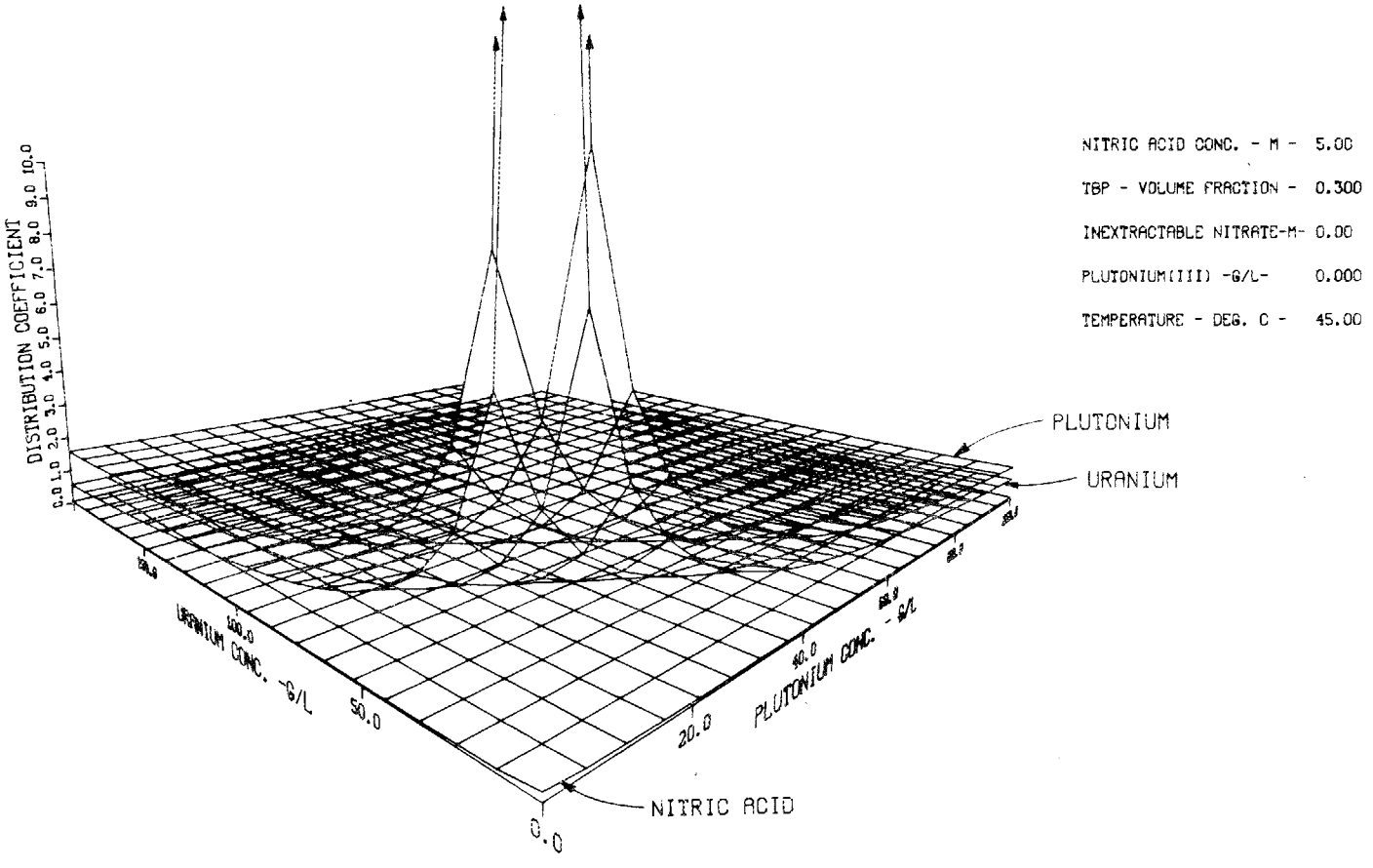

Fig. B.8. Distribution coefficient map for uranium, plutonium(IV), and nitric acid in the acid–water/TBP system containing 0 to 200 g/ℓ U, 0 to 100 g/ℓ Pu(IV), 5.0 *M* HNO_3 in the aqueous phase, and 30% TBP at 45°C.

Appendix C

User's Guide for COEFF. DIS

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, that is, temperature, TBP concentration, acid concentration, inextractable nitrate concentration, and reduced plutonium concentration, are shown in Appendix B. The tables are divided into 20 even 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 vs both uranium and plutonium concentrations. The maps are seen in Figs. B.1 through B.8.

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

Program usage

All data for a given number of tables or graphs is read from seven cards (see Table C.1). The first five cards control the condition parameters and thus the number of sets of tables to be generated. The first card also controls the plotting of the distribution coefficient map, that is, a 1.0 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 shown in Table 2. 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.

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

	Initial values (cols. 1-8)	Limit values (cols. 9-16)	Increments (cols. 17-24)	Plot (col. 32)
Tributyl phosphate (vol %)	0.25	0.35	0.05	1
Nitric acid, *M*	0.1	0.5	0.1	
Inextractable nitrate, *M*	0.0	0.1	0.1	
Plutonium(III), g/ℓ	0.0	0.5	0.5	
Temperature, °C	20.0	50.0	15.0	
Plutonium(IV), g/ℓ	0.01	100	20 even divisions will be generated	
Uranium, g/ℓ	0.01	100		

These parameters are the controls for the loops producing the tables and plots so that all combinations of specified parameters are considered. One should be aware that the number of tables increases geometrically with the variation in parameters. For example, the set of conditions (variables) shown in Table 2 would yield 180 sets of tables.

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

Appendix D

COEFF. DIS Program Listing and Sample JCL

```
      DIMENSION AA(20,20),BB(20,20),CC(20,20),WORK(500),DD(20,20)
      DIMENSION D(20,20),E(20,20)
      REAL NITI,NITF,NITIN
      CALL CALCMP
      IP=0
      IXPT=20
      IYPT=20
C
C     READ IN RANGES TO BE CONSIDERED
C
5     READ(5,1010) 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=INT((TBPF-TBPI)/TBPIN)+1
      IAF=INT((ACIDF-ACIDI)/ACIDIN)+1
      INF=INT((NITF-NITI)/NITIN)+1
      IPF=INT((PU3F-PU3I)/PU3IN)+1
      ITF=INT((TEMF-TEMI)/TEMIN)+1
      XSTEP=(XMAX-XMIN)/IXPT
      YSTEP=(YMAX-YMIN)/IYPT
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
      TNM=HAM1+2.*UAM1+2.*PUAM1+SNITR1+4.*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.)
      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(-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
      DENOM=1.0-.43223+0.013118*TEMPC+.74358*UAM1-.175829*HAM1*UAM1
      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 100 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
```

```
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 COEFFICIENTS$',-100,10.,8.0)
        CALL AXES3D('PLUTONIUM CONC. - G/L$',100,
     /  'URANIUM CONC. -G/L$',100,
     /  'DISTRIBUTION COEFFICIENTS$',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
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',2X,'URANIUM  :',41X,'PLUTONIUM CONCENTRATION - G/L')
2090    FORMAT(' ',2X,'CONC-G/L :')
2100    FORMAT(' ',11X,':',20(X,F5.1))
2105    FORMAT(' ',11X,': TRACE',19(X,F5.1))
2110    FORMAT(' ',44('---'))
2120    FORMAT(' ',3X,F5.1,3X,':',20(X,F5.2))
2125    FORMAT(' ',3X,'TRACE',3X,':',20(X,F5.2))
2130    FORMAT(' ',11X,':')
        STOP
        END
```

Sample JCL for COEFF. DIS

```
//RTJTAPE JOB (XXXXX), 'R T JUBIN 7601'
//*CLASS CPU91 = 20S, 10=5,REGION=270,LINES=30,SPECIAL=TAPE
//*PLOT TYPE=CAL925, INK= (BLACK/L,RED/L,GREEN/L),COPIES = 1, NUMBER=8
/*ROUTE PRINT LOCAL
// EXEC FORTHCLG,PLOT=PLT,PARM.GO='EU=-1,DUMP=I',REGION.GO=270K
//FORT.SYSIN DD *
=COEFF. DIS
/*
//LKED.SYSLIB DD
// DD
// DD
// DD DSN=SYS2.DISSPLA,DISP=SHR
//LKED.SYSIN DD *
/*
//GO.FT54F001 DD DDNAME=PLOTTAPE
//GO.PLOTTAPE DD UNIT=TAPE9,VOL=SER=38,
// LABEL=(,NL),DISP=OLD,
// DCB=(RECFM=VS,LRECL=364,BLKSIZE=368)
//GO.FT05F001 DD *
=DATA
/*
//
ENDINPUT
*
```

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