

9.7: Chapter 7

7.1

Most of lanthanide ions are stable in the 3+ oxidation states but Ce^{4+} and Eu^{2+} are stable ions and solubilities and adsorption ability in the solvent extraction are significantly different from those of other lanthanides which makes the separation easier.

7.2

$$\frac{N}{N_0} = e^{-\lambda \times \frac{\ln 2}{\lambda} \times 10} = e^{-\ln 10} = 2^{-10} = 9.77 \times 10^{-4}$$

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