

Table 1
Single-Parameter Limits for Uniform Aqueous Solutions of Fissile Nuclides

Parameter	Subcritical Limit for Fissile Solute				
	²³⁵ UO ₂ F ₂ [2]	²³⁵ UO ₂ (NO ₃) ₂ [2]	²³⁵ UO ₂ F ₂ [3]	²³⁵ UO ₂ (NO ₃) ₂ [3]	²³⁹ Pu(NO ₃) ₄ [4]
Mass of fissile nuclide, kg	0.54	0.55	0.76	0.78	0.48
Diameter of cylinder of solution, cm	10.5	11.7	13.7	14.4	15.4
Thickness of slab of solution, cm	2.5	3.1	4.4	4.9	5.5
Volume of solution, L	2.8	3.6	5.5	6.2	7.3
Concentration of fissile nuclide, g/L	10.8	10.8	11.6	11.6	7.3
Atomic ratio of hydrogen to fissile nuclide ^(a)	2390	2390	2250	2250	3630
Areal density of fissile nuclide, g/cm ²	0.35	0.35	0.40	0.40	0.25

(a) Lower limit