

**Table 7. Nuclear and Other Properties of Selected Elements**

Element	Thermal Neutron Capture Cross-section for 2200m/sec.  Neutrons $10^{-24}\text{cm}^2$ (barns)	Density g/cc	Melting Point  °C
Beryllium	.01	1.8	1278
Magnesium	.06	1.74	651
Zirconium	.18	6.4	1857
Aluminum	.23	2.7	660
Niobium (columbium)	1.1	8.6	2468
Molybdenum	2.5	10.2	2610
Iron	2.53	7.86	1535
Ruthenium	2.56	12.45	2310
Chromium	2.9	7.1	1890
Copper	3.6	8.95	1083
Nickel	4.6	8.90	1453
Vanadium	4.7	5.96	1710
Titanium	5.6	4.5	1675
Palladium	8.0	12.16	1552
Platinum	8.1	21.45	1772
Manganese	13.2	7.2	1244
Osmium	15.3	22.61	3045
Tungsten	19.2	19.3	3380
Tantalum	21.3	16.6	2996
Cobalt	37	8.9	1495
Rhenium	84	21.0	3180
Hafinium	105	13.1	2150
Rhodium	150	12.41	1966
Indium	430	7.28	156
Iridium	440	22.65	2443
Boron	755	2.3	2300