PHYSICAL CONSTANTS OF PLUTONIUM COMPOUNDS[1]

Compound	Melting Point	Crystalline Color	Density Theoretical	Density Bulk	Density Tap
PuC	1654°C		13.6		
Pu_2C_3	2050		12.7		
PuC_2	2250		--		
$PuCl_3$	760	green	5.7	1.9[2]	
PuF_3	1425	violet	9.32		
PuF_4	1037	pale brown	7.0	1.38	
PuF_6	51	red-brown	--		
PuH_2	oxidizes @ 150	grey metallic	10.4		
PuH_3	oxidizes @ 150	black	9.61		
$Pu(OH)_4$	oxidizes @ 70	green	--		
$Pu(C_2O_4)_2$	decomposes @ 160	yellow-green	--	0.6[2]	
$Pu_2(C_2O_4)_3$	decomposes @ 260	--	--		
Pu Peroxide		green	3.71		0.7
PuO_2 (oxalate)	2390	yellow-green to brown	11.46	0.7	0.92
PuO_2 (nitrate)	2390	yellow-green to brown	11.46	1.48	1.58
Pu_2O_3	2085		10.2		
PuN	2584[3]	brown to black	14.22		
$Pu(NO_3)_4 \cdot 5H_2O$		brown	2.90		
$PuO_2(NO_3)_2$	decomposes @ 220	pink-brown			
$PuO_2(NO_3)_2$	unstable in air				
PuP			9.87		
$PuPO_4$	decomposes @1400	blue	7.55		
PuSi	1576		10.15		
Pu_3Si_5	1646		8.96		
PuS	2350	gold-brown	10.6		
$Pu(SO_4)_2$	decomposes @ 650	pink			

(1) Plutonium Handbook Volume I. O. J. Wick, editor.

(2) Reactor Handbook Volume II. S. M. Stoller, editor.

(3) In nitrogen atmosphere, volatile above 1600°C in vacuum.