

TABLE I - PHYSICAL PROPERTIES OF CADMIUM COMPOUNDS

Molecular Formula & Substance Name	CAS Registry Number	Synonyms	Color Crystals	Molecular Weight	Boiling Point °C	Melting Point °C	Density/Specifi c Gravity	Solubility in water
C ₄ H ₆ CdO ₄ cadmium acetate	543-90-8	cadmium diacetate	colorless, mono-clinic	230.49	decomposes	256	2.01	soluble
CCdO ₃ cadmium carbonate	513-78-0	---	powder or rhombohedral leaflets	174.42	decomposes at 500	---	4.26	insoluble
CdCl ₂ cadmium chloride	10108-64-2	cadmium dichloride	hygroscopic rhombohedral	183.32	960	568	4.05	soluble
CdF ₂ cadmium fluoride	7790-79-6	---	cubic, white	150.41	1758	1049	6.33	soluble
CdO cadmium oxide	1306-19-0	---	amorphous, brown	128.4	1559	<1,426	6.95	insoluble
Br ₂ Cd cadmium bromide	7789-42-6	---	pearly, hexagonal	272.22	963	566	5.19	soluble
CdSO ₄ cadmium sulfate	10124-36-4	---	rhombic, white	208.46	---	1000	4.69	soluble
CDs cadmium sulfide	1306-23-6	cadmium orange	yellow, orange	144.46	sublimes in N ₂	1,750 at 100 atm	4.82	insoluble
CdCl ₂ O ₆ cadmium chlorate	---	---	colorless	279.31	---	80	2.28	---
CdN ₂ O ₆ cadmium nitrate	10325-94-7	cadmium dinitrate	white, prismatic needles	236.42	132	350	2.46	soluble
Cd ₃ O ₈ P ₂ •4H ₂ O cadmium phosphate	13477-17-3	---	amorphous or colorless	599.22	---	1500	---	---
C ₁₄ H ₁₀ CdO ₆ cadmium salicylate	19010-79-8	---	monohydrate small needles	386.64	---	242	---	soluble
C ₂ CdN ₂ cadmium cyanide	---	---	crystals or white powder	164.45	---	---	2.23	soluble

(ARB, 1986; Sax, 1989; Merck, 1989)