



>>Entry Name: Cobalt(II) oxalate, 8Cl

Synonym(s): [Ethanedioato(2-)-O,O']cobalt(II), 12Cl. Ethanedioic acid cobalt(2+) salt (1:1), 11Cl, 9Cl. Cobaltous oxalate

CAS Registry Number: 814-89-1

Related CAS Registry Numbers(s): 62782-24-5

Extra CAS Registry Numbers(s): 134761-87-8

Co(C₂O₄)

Molecular Formula: C₂CoO₄

Molecular Weight: 146.953

Accurate Mass: 146.912858

Percentage Composition: C 16.35%; Co 40.10%; O 43.55%

General Statement: Exists in α and β modifications; β modification obt. by thermal dec. of dihydrate

Physical Description: Violet solid

>>Derivative: Dihydrate

CAS Registry Number: 5965-38-8

Extra CAS Registry Numbers(s): 117205-01-3

Molecular Formula: C₂H₄CoO₆

Molecular Weight: 182.983

Accurate Mass: 182.933988

Percentage Composition: C 13.13%; H 2.20%; Co 32.21%; O 52.46%

Use/Importance: Commercially available

Physical Description: Pink solid

Melting Point: Mp 230° (dec.)

Solubility: Sol. warm conc. NH₃, aq. (NH₄)₂CO₃

Aldrich: 40128-5

>>Derivative: Tetrahydrate

CAS Registry Number: 5965-39-9

Physical Description: Efflorescent yellowish-pink solid

References:

Remy, H., *Treatise Inorg. Chem.*, Elsevier, 1956, **2**, 301, (*synth, props*)

Deyrieux, R. *et al.*, *Bull. Soc. Chim. Fr.*, 1973, 25, (*cryst struct, dihydrate*)

Pezerat, H. *et al.*, *Bull. Soc. Chim. Fr.*, 1975, 1000, (*cryst struct, dihydrate*)

Nikonenko, E.A. *et al.*, *Zh. Neorg. Khim.*, 1982, **27**, 957; *Russ. J. Inorg. Chem. (Engl. Transl.)*, 1982, **27**, 547, (*ir, uv-vis*)

Bogdanov, V.S. *et al.*, *Zh. Neorg. Khim.*, 1983, **28**, 3063; *Russ. J. Inorg. Chem. (Engl. Transl.)*, 1983, **28**, 1736, (*α-form, β-form*)

Kondrashev, Yu.D. *et al.*, *Zh. Strukt. Khim.*, 1985, **26**, 90, (*cryst struct*)