



>>Entry Name: Cobalt(II) fluoride (CoF₂)

Synonym(s): Cobalt difluoride. Cobaltous fluoride

CAS Registry Number: 10026-17-2

CoF₂

Molecular Formula: CoF₂

Molecular Weight: 96.93

Accurate Mass: 96.930004

Percentage Composition: Co 60.80%; F 39.20%

General Statement: Rutile struct.

Source/Synthesis: Prepd. from HF + anhyd. CoCl₂ or Co

Use/Importance: Catalyst for org. reactions

Physical Description: Reddish-pink cryst.

Melting Point: Mp 1200°

Boiling Point: Bp 1400°

Solubility: Spar. sol. H₂O

Other Data: Antiferromagnetic. Forms di-, tri- and tetrahydrates

Aldrich: 23612-8

Fluka: 60834

>>Derivative: Tetrahydrate

CAS Registry Number: 13817-37-3

Aldrich: 39987-6

References:

Baur, W.H., *Acta Cryst.*, 1958, **11**, 488, (*cryst struct*)

Muetterties, E.L. *et al.*, *J. Inorg. Nucl. Chem.*, 1961, **18**, 148, (*synth*)

Nierlich, M. *et al.*, *C. R. Hebd. Seances Acad. Sci. Ser. B*, 1971, **272**, 948, (*cryst struct, tetrahydrate*)

Brauer, G., *Handbuch Prap. Anorg. Chem.*, 3rd edn., Ferdinand Enke Verlag, 1975, **1**, 275, (*synth*)

Opglovskii, A.A. *et al.*, *Russ. J. Inorg. Chem. (Engl. Transl.)*, 1977, **22**, 641, (*synth*)

Kirk-Othmer Encycl. Chem. Technol., 3rd edn., Wiley, 1978, **10**, 717, (*rev*)

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