



>>Entry Name: Cobalt(III) fluoride (CoF₃), 11Cl

Synonym(s): Cobalt trifluoride

CAS Registry Number: 10026-18-3

CoF₃

Molecular Formula: CoF₃

Molecular Weight: 115.928

Accurate Mass: 115.928407

Percentage Composition: Co 50.84%; F 49.16%

General Statement: The F atoms have an intermed. packing arrangement between hexagonal close packing and cubic

Use/Importance: Commercially available. Fluorinating agent

Physical Description: Brown cryst.

Solubility: Sol. EtOH, Et₂O, C₆H₆

Hazard & Toxicity: Oxidiser. Corrosive

Aldrich: 23613-6

Fluka: 60838

References:

Sidgwick, N.V., *The Chemical Elements and their Compds.*, Oxford, 1950, 1394

Fieser and Fieser's *Reagents for Organic Synthesis*, Wiley, 1980, **8**, 113, (use)

Wells, A.F., *Structural Inorg. Chem.*, 5th Ed., Oxford, 1984, 417, (struct)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, CNE250