>>**Entry Name: Copper(*II*) fluoride (CuF_2)**
Synonym(s): Cupric fluoride. Copper difluoride

CAS Registry Number: 7789-19-7

CuF_2

Molecular Formula: CuF_2
Molecular Weight: 101.543
Accurate Mass: 100.936404
Percentage Composition: Cu 62.58%; F 37.42%
General Statement: Has distorted rutile struct.
Use/Importance: Used in cathodes in non-aqueous cells. High temp. fluorinating agent
Physical Description: Monoclinic cryst; turns blue in moist air due to formation of dihydrate
Melting Point: Mp 785° (N_2 atm.)
Solubility: Sol. H_2O
Other Data: May be stored in sealed glass ampoules

Aldrich: 21790-5
Fluka: 61185

>>**Derivative:** Dihydrate
CAS Registry Number: 13454-88-1
Physical Description: Blue cryst.
Other Data: Dec. >130°. Hydrol. to CuF(OH) in hot H_2O
Fluka: 61187

References:

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Haendler, H.M. *et al.*, *J.A.C.S.*, 1954, **76**, 2178, *(synth)*
Billy, C. *et al.*, *J.A.C.S.*, 1957, **79**, 1049, *(cryst struct)*
Ritter, R.L. *et al.*, *J. Phys. Chem.*, 1971, **71**, 2036, *(synth, kinetics)*
Brauer, G.*, Handbuch Prap. Anorg. Chem.*, 3rd edn., Ferdinand Enke Verlag, 1975, **1**, 246, *(synth)*
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