



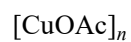
>>Entry Name: Copper(*I*) acetate

Synonym(s): Cuprous acetate. (Acetato-*O,O'*)copper, 10Cl

CAS Registry Number: 17203-87-1

Related CAS Registry Numbers(s): 4180-12-5

Extra CAS Registry Numbers(s): 598-54-9



Molecular Formula: C₂H₃CuO₂

Molecular Weight: 122.591

Accurate Mass: 121.952903

Percentage Composition: C 19.60%; H 2.47%; Cu 51.84%; O 26.10%

General Statement: Polymeric planar chains in the solid state

Source/Synthesis: Synth. from Cu₂O and AcOH/Ac₂O, or from Cu(OAc)₂ and Cu foil

Use/Importance: Effects acetoxylation of vinyl halides; catalyses the oxidn. of phenols

Physical Description: Transparent leafy cryst.

Solubility: Sol. Py, AcOH; mod. sol. Et₂O

Other Data: Dec. at 285°. Rapidly hydrol. by H₂O

References:

Angel, A. *et al.*, *J.C.S.*, 1902, 1385, (*synth*)

Shimizu, H. *et al.*, *J.A.C.S.*, 1952, **74**, 4469, (*synth*)

Lin, D.C.K. *et al.*, *Can. J. Chem.*, 1973, **51**, 2999, (*ms*)

Drew, M.G.B. *et al.*, *Chem. Comm.*, 1973, 124, (*synth, cryst struct*)

Ogura, T. *et al.*, *Inorg. Chem.*, 1973, **12**, 2611, (*ms*)

Luckhart, T.P. *et al.*, *Polyhedron*, 1985, **4**, 1745, (*synth*)

Merck Index, 11th edn., 1989, No. 2665

Encyclopaedia of Reagents for Organic Synthesis, (ed. Paquette, L.A.), Wiley, 1995, **2**, 1302, (*synth, use*)