



>>Entry Name: Copper(II) ethoxide

Synonym(s): Ethanol copper(2+) salt (2:1), 9CI. Cupric ethoxide. Diethoxycopper

CAS Registry Number: 2850-65-9

$\text{Cu}(\text{OEt})_2$

Molecular Formula: $\text{C}_4\text{H}_{10}\text{CuO}_2$

Molecular Weight: 153.668

Accurate Mass: 153.007678

Percentage Composition: C 31.26%; H 6.56%; Cu 41.35%; O 20.82%

Source/Synthesis: Synth. by low temp. reaction of CuCl_2 with EtOH in presence of Et_3N , or by electrolysis of EtOH in DMF using Cu anode and Bu_4NCl electrolyte

Use/Importance: Used in prepn. of superconductors; catalyst for polym. of xyleneol

Physical Description: Hygroscopic blue solid

Solubility: Insol. most org. solvs.

Other Data: Dec. at 120° . Ir $\nu_{\text{C-O}}(\text{stretch})$ 1015-1060; $\nu_{\text{C-O}}(\text{terminal alkoxyl})$ 1060-1130; $\nu_{\text{Cu-O}}(\text{stretch})$ 520-560, 415-450 cm^{-1} (nujol)

Other: Gelest AKC 250

References:

Brubaker, C.H. *et al.*, *J. Inorg. Nucl. Chem.*, 1965, **27**, 59, (*synth*)

Banait, J.S. *et al.*, *Synth. React. Inorg. Met.-Org. Chem.*, 1986, **16**, 1217, (*synth, ir*)

Banait, J.S. *et al.*, *Bull. Electrochem.*, 1989, **5**, 264, (*synth*)

Kordas, G. *et al.*, *J. Mater. Chem.*, 1992, **2**, 467, (*use*)

Japan. Pat., 1994, 94 80 674; *CA*, **121**, 82507z, (*synth*)