



>>Entry Name: Copper(II) methoxide

Synonym(s): Dimethoxycopper. Cupric methoxide

CAS Registry Number: 1184-54-9

Extra CAS Registry Numbers(s): 76890-98-7

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

Molecular Formula: $\text{C}_2\text{H}_6\text{CuO}_2$

Molecular Weight: 125.614

Accurate Mass: 124.976378

Percentage Composition: C 19.12%; H 4.81%; Cu 50.59%; O 25.47%

General Statement: Struct. contains infinite chains of methoxy-bridged Cu ions

Source/Synthesis: Synth. from CuCl_2 and LiOMe

Use/Importance: Used in synth. of carbamates from secondary amines

Physical Description: Moisture-sensitive royal blue cryst. (MeOH/NH_3)

Melting Point: Mp 206 dec.°

Solubility: Insol. org. solvs.

Other Data: Strongly antiferromagnetic

Aldrich: 33266-6

Other: Gelest AKC254

References:

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

Costa, G. *et al.*, *J. Inorg. Nucl. Chem.*, 1965, **27**, 281, (*synth, ir*)

Adams, R.W. *et al.*, *Aust. J. Chem.*, 1966, **19**, 207, (*synth, uv-vis, magnetism*)

Saegusa, T. *et al.*, *J.O.C.*, 1970, **35**, 2976, (*use*)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1974, **4**, 107, (*use*)

Inorg. Synth., 1997, **31**, 294-299, (*synth, ir*)