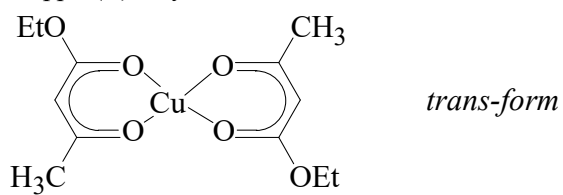




>>Entry Name: **Bis(ethylacetoacetato)copper**

Synonym(s): Bis[ethyl 3-(oxo-*O*)butanoato-*O'*]copper, 9CI. Copper(*II*) ethylacetoacetate



CAS Registry Number: 14284-06-1

Extra CAS Registry Numbers(s): 36399-91-4 36399-92-5

Molecular Formula: C₁₂H₁₈CuO₆

Molecular Weight: 321.817

Accurate Mass: 321.049938

Percentage Composition: C 44.79%; H 5.64%; Cu 19.75%; O 29.83%

General Statement: Exists as an equilib. mixt. of *cis*- and *trans*-forms in soln.

Source/Synthesis: Synth. from Cu₂(H₂O)₂(CH₃COO)₄ + diketone, or from CuCl₂ + diketone + NH₃

Use/Importance: Precursor to YBCO superconductor; synthetic intermed. for triketone, etc

Physical Description: Green cryst. (EtOH)

Melting Point: Mp 192-193°

Solubility: Sol. EtOH, CHCl₃

Other Data: Readily forms 2:1 complexes with bases

Other: Gelest AKC252

References:

Mishra, N.C. *et al.*, *Curr. Sci.*, 1976, **45**, 861-862; *CA*, **86**, 64823d, (*synth, reactions*)

Maijs, L. *et al.*, *Latv. PSR Zinat. Akad. Vestis, Kim. Ser.*, 1976, **4**, 474; *CA*, **86**, 11062y, (*isomers*)

Prabhananda, B.S. *et al.*, *Polyhedron*, 1994, **13**, 469-474, (*epr*)

Matre, G.J. *et al.*, *Synthesis*, 1994, 381-382, (*use*)