



>>Entry Name: **Bis(acetato-*O*)tetraaquacobalt**, 10CI

Synonym(s): Diacetatotetraaquacobalt(*II*). Cobaltous acetate tetrahydrate. Cobalt(*II*) acetate tetrahydrate

CAS Registry Number: 6147-53-1

Related CAS Registry Numbers(s): 19621-58-0 59091-75-7

$\text{Co}(\text{OAc})_2(\text{OH}_2)_4$

Molecular Formula: $\text{C}_4\text{H}_{14}\text{CoO}_8$

Molecular Weight: 249.083

Accurate Mass: 249.002068

Percentage Composition: C 19.29%; H 5.67%; Co 23.66%; O 51.39%

General Statement: *trans*-Octahedral with Co-OH₂ 211, 206, Co-O 212 pm. Isomorphous with corresp. nickel acetate complex

Use/Importance: Commercially available

Physical Description: Pinkish red cryst.

Other Data: Loses H₂O at 140°

Aldrich: 40302-4

Fluka: 60790

Sigma: C8504

References:

Aldrich Library of Infrared Spectra, 3rd edn., 1981, 325B, (*ir*)

Van Nickerk, J.N. *et al.*, *Acta Cryst.*, 1953, **6**, 609, (*cryst struct*)

Narayana, P.A. *et al.*, *Can. J. Phys.*, 1968, **46**, 325, (*uv-vis*)

Karnezos, M. *et al.*, *J. Appl. Phys.*, 1979, **50**, 1856, (*magnetism*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, CNA500