



>>Entry Name: Rubidium formate

Synonym(s): Formic acid, rubidium salt, 8Cl. Rubidium methanoate. Methanoic acid, rubidium salt

CAS Registry Number: 3495-35-0

RbOOCH

Molecular Formula: CHO₂Rb

Molecular Weight: 130.485

Accurate Mass: 129.909449

Percentage Composition: C 9.20%; H 0.77%; O 24.52%; Rb 65.50%

Source/Synthesis: Obt. form aq. HCOOH and Rb₂CO₃; dried at 135-140°

Use/Importance: Commercially available. Hydrodimerisation catalyst

Physical Description: Hygroscopic white cryst. (aq. HCOOH)

Other Data: Dec. on heating to form Rb₂CO₃ via Rb₂C₂O₄

Aldrich: 43089-7

Sigma: R1127

References:

Wilcox, D.E. *et al.*, *Ind. Eng. Chem.*, 1963, **55**, 32, (*thermodyn*)

Donaldson, J.D. *et al.*, *Spectrochim. Acta*, 1964, **20**, 847, (*ir*)

Meisel, T. *et al.*, *J. Therm. Anal.*, 1975, **7**, 73, (*thermal dec*)

Shishido, S. *et al.*, *Nippon Kagaku Kaishi*, 1976, 66, (*thermal dec*)

Hamann, S.D. *et al.*, *Aust. J. Chem.*, 1977, **30**, 957, (*ir*)

Eur. Pat., 1980, 19 961; *CA*, 1981, **95**, 7511, (*catalyst*)

Sakiyama, M. *et al.*, *Bull. Chem. Soc. Jpn.*, 1984, **57**, 1174, (*lattice energy*)