



>>Entry Name: Silver cyanate

Synonym(s): Cyanic acid silver(1+) salt

CAS Registry Number: 3315-16-0

AgOCN

Molecular Formula: CAgNO

Molecular Weight: 149.885

Accurate Mass: 148.903081

Percentage Composition: C 8.01%; Ag 71.97%; N 9.34%; O 10.67%

Source/Synthesis: Synth. by reaction of aq. solns. of AgNO₃ and NaNCO

Use/Importance: Reagent for addn. of INCO to olefins

Physical Description: Light-sensitive cryst. (NH₃ aq.)

Aldrich: 24469-4

Fluka: 85175

Sigma: S2773

References:

Waddington, T.C. *et al.*, *J.C.S.*, 1959, 2499, (*cryst struct, ir, synth*)

Miller, F.A. *et al.*, *Spectrochim. Acta*, 1960, **16**, 135, (*ir*)

Britton, D. *et al.*, *Acta Cryst.*, 1965, **18**, 424, (*cryst struct*)

Rosen, S. *et al.*, *Anal. Chem.*, 1966, **38**, 1392, (*use*)

Gebelein, C.G., *Chem. Ind. (London)*, 1970, 57, (*use*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, SDO525