



>>Entry Name: Silver(I) thiocyanate

CAS Registry Number: 1701-93-5

AgSCN

Molecular Formula: CAgNS

Molecular Weight: 165.952

Accurate Mass: 164.880236

Percentage Composition: C 7.24%; Ag 65.00%; N 8.44%; S 19.32%

Source/Synthesis: Precipitated from aq. solns. of Ag⁽⁺⁾ + NCS⁽⁻⁾

Use/Importance: Commercially available

Physical Description: Colourless cryst. Struct. is polymeric consisting of zigzag -Ag-N≡CbS- chains

Aldrich: 29966-9

Fluka: 85315

References:

Lindqvist, I., *Acta Cryst.*, 1957, **10**, 29, (*cryst struct*)

Kinell, P.O. *et al.*, *Acta Chem. Scand.*, 1959, **13**, 1607, (*ir, Raman*)

Inorg. Synth., 1966, **8**, 27, (*synth*)

Smith, D.L. *et al.*, *J. Appl. Crystallogr.*, 1982, **15**, 488, (*cryst struct*)