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>>Entry Name: **Copper(I) thiocyanate**

Synonym(s): Cuprous thiocyanate

CAS Registry Number: 1111-67-7

CuSCN

Molecular Formula: CCuNS

Molecular Weight: 121.63

Accurate Mass: 120.914742

Percentage Composition: C 9.88%; Cu 52.25%; N 11.52%; S 26.36%

Source/Synthesis: Precipitates from CuSO<sub>4</sub>-NH<sub>4</sub>NCS-NaHSO<sub>3</sub>-H<sub>2</sub>O systems

Use/Importance: Used in marine anti-fouling paints

Physical Description: White cryst. (α-form) or brown cryst. (β-form)

Melting Point: Mp 1084°

Solubility: Prac. insol. H<sub>2</sub>O, EtOH, Me<sub>2</sub>CO

Aldrich: 29821-2

Sigma: C1797

**References:**

Demmerle, R.L. *et al.*, *Ind. Eng. Chem.*, 1950, **42**, 2, (*synth*)

Kabesova, M. *et al.*, *Inorg. Chim. Acta*, 1976, **17**, 161; 1978, **31**, L435, (*synth, cryst struct, ir*)

Smith, D.L. *et al.*, *Acta Cryst. B*, 1982, **38**, 907, (*cryst struct*)

*Merck Index*, 11th edn., 1989, No. 2676