



>>Entry Name: Zinc cyanide

CAS Registry Number: 557-21-1

$\text{Zn}(\text{CN})_2$

Molecular Formula: $\text{C}_2\text{N}_2\text{Zn}$

Molecular Weight: 117.425

Accurate Mass: 115.935293

Percentage Composition: C 20.46%; N 23.86%; Zn 55.69%

Physical Description: Colourless cryst.

Melting Point: Mp 800 dec.°

Solubility: Insol. EtOH; sol. aq. alkali cyanide and aq. NH_3 ; spar. sol. H_2O (5×10^{-4} g in 100 cm^3 at 20°)

Hazard & Toxicity: Reported to be tasteless but poisonous

Aldrich: 25649-8

Fluka: 96475

References:

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Wyckoff, W.C., *Cryst. Struct.*, Interscience, 1965, **3**, 80; 146

Persson, H. *et al.*, *Acta Chem. Scand.*, 1971, **25**, 543, (stability const)

Dehnicke, G. *et al.*, *Ber. Bunsen-Ges. Phys. Chem.*, 1974, **78**, 1010, (ir)

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Hoskins, B.F. *et al.*, *J.A.C.S.*, 1990, **112**, 1546-1554, (cryst struct)

Uchiyama, M. *et al.*, *J.A.C.S.*, 1997, **119**, 12372-12373, (exafs)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, ZGA000