



>>Entry Name: Di-2-propenylcyanamide, 9CI

Synonym(s): Diallylcyanamide

CAS Registry Number: 538-08-9

$(\text{H}_2\text{C}=\text{CHCH}_2)_2\text{NCN}$

Molecular Formula: $\text{C}_7\text{H}_{10}\text{N}_2$

Molecular Weight: 122.169

Accurate Mass: 122.084398

Percentage Composition: C 68.82%; H 8.25%; N 22.93%

Melting Point: Mp -70°

Boiling Point: Bp 222° . Bp₁₈ 105-110°

Solubility: Insol. H_2O ; sol. org. solvs.

Other Data: Undergoes radical homopolym. with cyclisation. Q/e values for radical polym., Q 0.14, e +2.41

Hazard & Toxicity: Yields v. toxic cyanide fumes on heating

Rare Chemicals Library: S34541-5

References:

Vliet, E.B., *J.A.C.S.*, 1924, **46**, 1305, (*synth*)

Org. Synth., Coll. Vol., 1, 1932, 203, (*synth*)

Uno, K. *et al.*, *J. Polym. Sci., Part A-1*, 1967, **6**, 85, (*polym*)

Jonczyk, A. *et al.*, *Synthesis*, 1978, 882, (*synth*)

Greenley, R.Z., *J. Macromol. Sci., Chem., Part A*, 1980, **14**, 427, (*Q/e values*)

Hodgkin, J.H. *et al.*, *Polym. Bull. (Berlin)*, 1982, **7**, 353, (*polymer, struct*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, DBJ200