



>>Entry Name: 1,5-Dibromopentane, 9CI

Synonym(s): Pentamethylene bromide

CAS Registry Number: 111-24-0

BrCH2(CH2)3CH2Br

Molecular Formula:  $C_5H_{10}Br_2$

Molecular Weight: 229.942

Accurate Mass: 227.954922

Percentage Composition: C 26.12%; H 4.38%; Br 69.50%

Physical Description: Aromatic liq.

Melting Point: Fp  $-39.5^{\circ}$

Boiling Point: Bp  $222.3^{\circ}$ . Bp<sub>20</sub>  $111-112^{\circ}$

Solubility: Insol. H<sub>2</sub>O

Density:  $d^{20}_4$  1.688

Refractive Index:  $n^{20}_D$  1.5122

Other Data: Forms regular copolymers with vinyl monomers and ionene polymers with tertiary diamines

Hazard & Toxicity: Fl. p.  $>107^{\circ}$

Aldrich: 12800-7

Fluka: 34260

Sigma: D4016

#### References:

*Aldrich Library of NMR Spectra, 2nd edn.*, 1983, **1**, 76D, (*nmr*)

*Aldrich Library of FT-IR Spectra, 1st edn.*, 1985, **1**, 76A, (*ir*)

*Aldrich Library of FT-IR Spectra: Vapor Phase*, 1989, **3**, 107B, (*ir*)

*Org. Synth., Coll. Vol.*, **3**, 1955, 692-693, (*synth*)

Rembaum, A. *et al.*, *J. Polym. Sci., Part B*, 1968, **6**, 159-171, (*ionene polymers*)

Richards, D.H. *et al.*, *Polymer*, 1969, **10**, 603-609, (*vinyl polymers*)

Dostovalova, V.L. *et al.*, *Org. Magn. Reson.*, 1981, **16**, 251-260, (*cmr*)

Nguyen, B.T. *et al.*, *J.O.C.*, 1986, **51**, 2206-2210, (*synth, pmr*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials, 8th edn.*, Van Nostrand Reinhold, 1992, DDR000