



>>Entry Name: **1,4-Dibromobutane**, 9Cl, 8Cl

Synonym(s): Tetramethylene dibromide

CAS Registry Number: 110-52-1

BrCH₂CH₂CH₂CH₂Br

Molecular Formula: C₄H₈Br₂

Molecular Weight: 215.915

Accurate Mass: 213.939272

Percentage Composition: C 22.25%; H 3.73%; Br 74.01%

Use/Importance: Forms copolymers with vinyl monomers. Polym. with *tert*-diamines to give ionene polymers

Melting Point: Fp -20°

Boiling Point: Bp 197-198°. Bp₁₁ 76°

Solubility: Insol. H₂O

Density: d₄²⁰ 1.81

Refractive Index: n_D²⁰ 1.5190

Hazard & Toxicity: Fl. p. >107°

Aldrich: 14080-5

Fluka: 34050

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **1**, 110A, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 74D, (*ir*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 106B, (*ir*)

Fried, S. *et al.*, *J.A.C.S.*, 1940, **62**, 3258, (*synth*)

Wilson, C.L., *J.C.S.*, 1945, 48, (*synth*)

Richards, D.H. *et al.*, *Polymer*, 1969, **10**, 603, (*copolymers*)

Asknes, D.W., *Acta Chem. Scand.*, 1972, **26**, 164, (*nmr*)

Knapick, E.G. *et al.*, *Macromolecules*, 1985, **18**, 1015, (*ionene polymers*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials, 8th edn.*, Van Nostrand Reinhold, 1992, DDL000