



>>Entry Name: 1,4-Bis(aminomethyl)benzene

Synonym(s): 1,4-Benzenedimethanamine, 9Cl. *p*-Xylene- α,α' -diamine, 8Cl. α,α' -Diamino-*p*-xylene. *p*-Xylylenediamine

CAS Registry Number: 539-48-0

Molecular Formula: $C_8H_{12}N_2$

Molecular Weight: 136.196

Accurate Mass: 136.100048

Percentage Composition: C 70.55%; H 8.88%; N 20.57%

Use/Importance: Comonomer for polyamide fibres

Physical Description: Cryst.

Melting Point: Mp 62-64°

Boiling Point: Bp₁₀ 230°

Hazard & Toxicity: Severe skin and eye irritant. LD₅₀ (rat, orl) 935 mg/kg

Aldrich: 27963-3

Fluka: 33423

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 605B, (*nmr*)

Losev, I.P. *et al.*, *Zh. Obshch. Khim.*, 1960, **30**, 3074; *J. Gen. Chem. USSR (Engl. Transl.)*, 1960, **30**, 3048, (*polyamides*)

Franc, J. *et al.*, *J. Chromatogr.*, 1970, **48**, 207, (*chromatog*)

Ioffe, A.E. *et al.*, *CA*, 1971, **75**, 140400d, (*synth*)

Brindell, G.D., *Ind. Eng. Chem. Prod. Res. Dev.*, 1976, **15**, 83, (*synth*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, PEX250