



>>Entry Name: **1,3-Bis(aminomethyl)benzene**

Synonym(s): 1,3-Benzenedimethanamine, 9CI. *m*-Xylene- α,α' -diamine, 8CI. α,α' -Diamino-*m*-xylene. *m*-Xylylenediamine

CAS Registry Number: 1477-55-0

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%

Source/Synthesis: Manuf. by redn. of isophthalodinitrile

Use/Importance: Polyamide comonomer

Physical Description: Liq.

Boiling Point: Bp 245-248°. Bp₁₄ 140°

Density: d^{20}_4 1.032

Refractive Index: n^{20}_D 1.5710

Hazard & Toxicity: Skin and eye irritant. LD₅₀ (rat, orl) 1600 mg/kg. LD₅₀ (rbt, skn) 2000 mg/kg

Fluka: 33421

>>Derivative: Hydrobromide (1:2)

CAS Registry Number: 43152-66-5

Physical Description: Yellowish needles (EtOH/Et₂O)

Melting Point: Mp 266°

>>Derivative: *N,N'*-Di-Ac

Synonym(s): *N,N'*-1,3-Phenylenebisacetamide, 9CI

Molecular Formula: $C_{12}H_{16}N_2O_2$

Molecular Weight: 220.271

Accurate Mass: 220.121178

Percentage Composition: C 65.43%; H 7.32%; N 12.72%; O 14.53%

Physical Description: Cryst. (C₆H₆)

Melting Point: Mp 134-135°

References:

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Ruggli, P. *et al.*, *Helv. Chim. Acta*, 1947, **30**, 1845, (synth)

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