



>>Entry Name: ***N*,3-Dimethylaniline**

Synonym(s): *N*,3-Dimethylbenzenamine, 9Cl. *N*-Methyl-*m*-toluidine, 8Cl. 3-(Methylamino)toluene

CAS Registry Number: 696-44-6

Extra CAS Registry Numbers(s): 1300-73-8

Structure by analogy with *N*,2-Dimethylaniline, [FDC46-X](#)

Molecular Formula: C₈H₁₁N

Molecular Weight: 121.182

Accurate Mass: 121.089149

Percentage Composition: C 79.29%; H 9.15%; N 11.56%

Physical Description: Liq.

Boiling Point: Bp 206-207°. Bp₁₃ 90-92°

Density: d₂₀ 0.967

pKa Value: p*K*_a 4.85 (25°)

>>Derivative: *N*-Ac

Synonym(s): *N*-Methylacet-*m*-toluidide

CAS Registry Number: 579-12-4

Molecular Formula: C₁₀H₁₃NO

Molecular Weight: 163.219

Accurate Mass: 163.099714

Percentage Composition: C 73.59%; H 8.03%; N 8.58%; O 9.80%

Physical Description: Cryst.

Melting Point: Mp 66°

>>Derivative: *N*-Nitroso

CAS Registry Number: 17485-25-5

Molecular Formula: C₈H₁₀N₂O

Molecular Weight: 150.18

Accurate Mass: 150.079313

Percentage Composition: C 63.98%; H 6.71%; N 18.65%; O 10.65%

Physical Description: Orange-yellow oil

Boiling Point: Bp₁ 89-90°

References:

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Roberts, R.M. *et al.*, *J.A.C.S.*, 1956, **78**, 4778

Sekiya, M. *et al.*, *Chem. Pharm. Bull.*, 1967, **15**, 1339

Gates, P.N. *et al.*, *J.C.S. Perkin 2*, 1972, 1607, (*ir*, *Raman*)

Shapiro, B.L. *et al.*, *J. Phys. Chem. Ref. Data*, 1977, **6**, 919, (*nmr*)

Luh, T.Y. *et al.*, *Synth. Commun.*, 1979, **9**, 757, (*synth*)