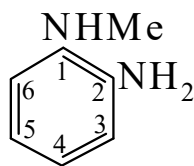




>>Entry Name: *N*-Methyl-1,2-benzenediamine, 9CI

Synonym(s): *N*-Methyl-*o*-phenylenediamine, 8CI. *N*-Methyl-1,2-diaminobenzene. *o*-Methylaminoaniline



CAS Registry Number: 4760-34-3

Molecular Formula: C₇H₁₀N₂

Molecular Weight: 122.169

Accurate Mass: 122.084398

Percentage Composition: C 68.82%; H 8.25%; N 22.93%

Melting Point: Mp 22°

Boiling Point: Bp₇₃₆ 245-248°. Bp₁₃ 131-133°

Other Data: Darkens rapidly in air

Aldrich: 39898-5

>>Derivative: Hydrochloride (1:2)

CAS Registry Number: 25148-68-9

Use/Importance: Used as soln. in EtOH for photometric detn. of Se ($\lambda_{\max}$ 346 nm, ϵ 19000)

Physical Description: Cryst. (EtOH)

Melting Point: Mp 191°

Solubility: Sol. EtOH, alkalis

>>Derivative: 1,2-*N*-Di-Ac

Molecular Formula: C₁₁H₁₄N₂O₂

Molecular Weight: 206.244

Accurate Mass: 206.105528

Percentage Composition: C 64.06%; H 6.84%; N 13.58%; O 15.52%

Physical Description: Plates (H₂O)

Melting Point: Mp 172°

>>Derivative: 1,2-*N*-Dibenzoyl

Molecular Formula: C₂₁H₁₈N₂O₂

Molecular Weight: 330.385

Accurate Mass: 330.136828

Percentage Composition: C 76.34%; H 5.49%; N 8.48%; O 9.69%

Melting Point: Mp 152.8-153.8°

References:

Elderfield, R.C. *et al.*, *J.A.C.S.*, 1954, **76**, 1891, (*synth*)

Cheeseman, G.W.H., *J.C.S.*, 1955, 3308, (*synth*)

Irving, H. *et al.*, *J.C.S.*, 1959, 2296, (*synth*)

Krueger, P.J., *Can. J. Chem.*, 1967, **45**, 2135, (*spectra*)

Kasterka, B., *Chem. Anal. (Warsaw)*, 1980, **25**, 215

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, MNU000