



>>Entry Name: Isopropylhydrazine, 8Cl

Synonym(s): (1-Methylethyl)hydrazine, 9Cl

CAS Registry Number: 2257-52-5

(H₃C)₂CHNHNH₂

Molecular Formula: C₃H₁₀N₂

Molecular Weight: 74.125

Accurate Mass: 74.084398

Percentage Composition: C 48.61%; H 13.60%; N 37.79%

Boiling Point: Bp₇₅₀ 106-107°

Solubility: Sol. H₂O, EtOH, C₆H₆; spar. sol. Et₂O

>>Derivative: Hydrochloride

CAS Registry Number: 16726-41-3

Physical Description: Hygroscopic cryst. (H₂O)

Melting Point: Mp 114° (122-123°)

>>Derivative: Dibenzoyl

CAS Registry Number: 35787-02-1

Molecular Formula: C₁₇H₁₈N₂O₂

Molecular Weight: 282.341

Accurate Mass: 282.136828

Percentage Composition: C 72.32%; H 6.43%; N 9.92%; O 11.33%

Melting Point: Mp 164.5-165°

>>Derivative: N²-Me

Synonym(s): N¹-Isopropyl-N²-methylhydrazine, 8Cl. 1-Methyl-2-(1-methylethyl)hydrazine, 9Cl

CAS Registry Number: 1615-82-3

Molecular Formula: C₄H₁₂N₂

Molecular Weight: 88.152

Accurate Mass: 88.100048

Percentage Composition: C 54.50%; H 13.72%; N 31.78%

Physical Description: Oil

Boiling Point: Bp 100°

>>Derivative: N²-Me, dibenzoyl

Molecular Formula: C₁₈H₂₀N₂O₂

Molecular Weight: 296.368

Accurate Mass: 296.152478

Percentage Composition: C 72.95%; H 6.80%; N 9.45%; O 10.80%

Physical Description: Cryst. (Et₂O)

Melting Point: Mp 76-77°

>>Derivative: N-Isopropylidene

Synonym(s): Acetone isopropylhydrazone

CAS Registry Number: 7423-01-0

Molecular Formula: C₆H₁₄N₂

Molecular Weight: 114.19

Accurate Mass: 114.115698

Percentage Composition: C 63.11%; H 12.36%; N 24.53%

Boiling Point: Bp₇₅₀ 132-134°

Solubility: Sol. H₂O with hydrol.

References:

Lochte, H.L. *et al.*, *J.A.C.S.*, 1922, **44**, 2556, (*synth*)

Taipale, K.A., *Chem. Zentralbl.*, 1924, **1**, 902, (*synth*)

Khoromov-Borisov, N.V. *et al.*, *CA*, 1968, **68**, 48947, (*N-Me*)

Condon, F.E., *J.O.C.*, 1972, **37**, 3615, (*N-Me*)

Fourche, J. *et al.*, *C. R. Hebd. Seances Acad. Sci. Ser. D*, 1978, **287**, 365, (*pharmacol*)

Zenkevich, I.G. *et al.*, *Zh. Org. Khim.*, 1978, **14**, 1121, (*ms*)