



>>>Entry Name: Isopropylhydrazine, 8Cl

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

CAS Registry Number: 2257-52-5

(H<sub>3</sub>C)<sub>2</sub>CHNHNH<sub>2</sub>

Molecular Formula: C<sub>3</sub>H<sub>10</sub>N<sub>2</sub>

Molecular Weight: 74.125

Accurate Mass: 74.084398

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

Boiling Point: Bp<sub>750</sub> 106-107°

Solubility: Sol. H<sub>2</sub>O, EtOH, C<sub>6</sub>H<sub>6</sub>; spar. sol. Et<sub>2</sub>O

>>>Derivative: Hydrochloride

CAS Registry Number: 16726-41-3

Physical Description: Hygroscopic cryst. (H<sub>2</sub>O)

Melting Point: Mp 114° (122-123°)

>>>Derivative: Dibenzoyl

CAS Registry Number: 35787-02-1

Molecular Formula: C<sub>17</sub>H<sub>18</sub>N<sub>2</sub>O<sub>2</sub>

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: N<sup>2</sup>-Me

Synonym(s): N<sup>1</sup>-Isopropyl-N<sup>2</sup>-methylhydrazine, 8Cl. 1-Methyl-2-(1-methylethyl)hydrazine, 9Cl

CAS Registry Number: 1615-82-3

Molecular Formula: C<sub>4</sub>H<sub>12</sub>N<sub>2</sub>

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: N<sup>2</sup>-Me, dibenzoyl

Molecular Formula: C<sub>18</sub>H<sub>20</sub>N<sub>2</sub>O<sub>2</sub>

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. (Et<sub>2</sub>O)

Melting Point: Mp 76-77°

>>>Derivative: N-Isopropylidene

Synonym(s): Acetone isopropylhydrazone

CAS Registry Number: 7423-01-0

Molecular Formula: C<sub>6</sub>H<sub>14</sub>N<sub>2</sub>

Molecular Weight: 114.19

Accurate Mass: 114.115698

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

Boiling Point: Bp<sub>750</sub> 132-134°

Solubility: Sol. H<sub>2</sub>O 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*)