



>>Entry Name: *N*-Isopropylhydroxylamine

Synonym(s): *N*-Hydroxy-2-propanamine, 9Cl. 2-Hydroxyaminopropane

CAS Registry Number: 5080-22-8

$(\text{H}_3\text{C})_2\text{CHNHOH}$

Molecular Formula: $\text{C}_3\text{H}_9\text{NO}$

Molecular Weight: 75.11

Accurate Mass: 75.068414

Percentage Composition: C 47.97%; H 12.08%; N 18.65%; O 21.30%

Physical Description: Prisms (petrol)

Melting Point: Mp 86-87°

Boiling Point: Subl.₁₀ 45°

>>Derivative: Oxalate salt

Physical Description: Needles (MeOH)

Melting Point: Mp 159-160°

>>Derivative: *O*-Me

Molecular Formula: $\text{C}_4\text{H}_{11}\text{NO}$

Molecular Weight: 89.137

Accurate Mass: 89.084064

Percentage Composition: C 53.90%; H 12.44%; N 15.71%; O 17.95%

Boiling Point: Bp 76°

>>Derivative: *O*-Et

Molecular Formula: $\text{C}_5\text{H}_{13}\text{NO}$

Molecular Weight: 103.164

Accurate Mass: 103.099714

Percentage Composition: C 58.21%; H 12.70%; N 13.58%; O 15.51%

Physical Description: Cryst.

Boiling Point: Bp 78°

References:

Jones, L.W. *et al.*, *J.A.C.S.*, 1930, **52**, 669-679, (*synth, derivs*)

Ryer, A.I. *et al.*, *J.A.C.S.*, 1951, **73**, 5675-5678, (*synth, oxalate*)

Purohit, D.N. *et al.*, *J. Indian Chem. Soc.*, 1986, **63**, 1073-1074, (*synth*)