



>>Entry Name: *O*-(2-Hydroxyethyl)hydroxylamine

Synonym(s): 2-(Aminooxy)ethanol, 9CI

CAS Registry Number: 3279-95-6

HOCH₂CH₂ONH₂

Molecular Formula: C₂H₇NO₂

Molecular Weight: 77.083

Accurate Mass: 77.047679

Percentage Composition: C 31.16%; H 9.15%; N 18.17%; O 41.51%

Physical Description: Liq.

Boiling Point: Bp₁ 61-62°. Bp_{0.07} 55°

Hazard & Toxicity: Explosive reaction with H₂SO₄ at 120° *in vacuo*

>>Derivative: Hydrochloride

CAS Registry Number: 23156-68-5

Physical Description: Cryst. (2-propanol/Et₂O)

Melting Point: Mp 62-65°

Other Data: Hygroscopic

>>Derivative: Picrate

Physical Description: Yellow needles (EtOH)

Melting Point: Mp 144-145°

References:

Bruno, I. *et al.*, *Helv. Chim. Acta*, 1962, **45**, 358, (*synth*)

Schumann, E.L. *et al.*, *J. Med. Chem.*, 1962, **5**, 464, (*deriv*)

Dhanak, D. *et al.*, *Chem. Comm.*, 1986, 903, (*synth*)

Bretherick, L., *Handbook of Reactive Chemical Hazards*, 4th edn., Butterworths, 1990, 0890