



>>Entry Name: *N,N*-Diethylhydroxylamine

Synonym(s): *N*-Ethyl-*N*-hydroxyethanamine, 9CI

CAS Registry Number: 3710-84-7

Et₂NOH

Molecular Formula: C₄H₁₁NO

Molecular Weight: 89.137

Accurate Mass: 89.084064

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

Use/Importance: Reagent for mild redn. of quinones

Physical Description: Liq.

Melting Point: Mp -8°

Boiling Point: Bp 133°. Bp₂₅ 57°

Solubility: Sol. H₂O

Density: d₄²⁰ 0.867

Other Data: Weakly alkaline to litmus

Aldrich: D9720-7

Fluka: 32370

Sigma: D5170

>>Derivative: Hydrochloride

CAS Registry Number: 38968-22-8

Melting Point: Mp 65-69.6° (sealed tube)

Other Data: V. hygroscopic

>>Derivative: Oxalate

Physical Description: Cryst. (EtOH)

Melting Point: Mp 138°

References:

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Baker, E.B. *et al.*, *J.A.C.S.*, 1953, **75**, 5193, (*synth*)

Cope, A.C. *et al.*, *J.A.C.S.*, 1957, **79**, 964, (*synth*)

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