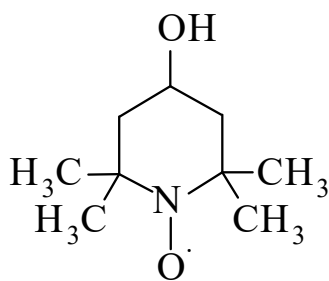




>>Entry Name: 4-Hydroxy-2,2,6,6-tetramethyl-1-piperidinyloxy, 9CI

Synonym(s): Tanol. 4-Hydroxy-TEMPO. Hy TEMPO. Nitroxyl 2



CAS Registry Number: 2226-96-2

Molecular Formula: $C_9H_{18}NO_2$

Molecular Weight: 172.247

Accurate Mass: 172.133754

Percentage Composition: C 62.76%; H 10.53%; N 8.13%; O 18.58%

Use/Importance: Spin label for biological molecules. Has been used to prepare spin-labelled NADP

Physical Description: Orange cryst.

Melting Point: Mp 69-71°

Aldrich: 17614-1

Fluka: 56516

Sigma: H8258

>>Derivative: O-Benzoyl

Synonym(s): 4-Hydroxy-TEMPO benzoate

CAS Registry Number: 3225-26-1

Molecular Formula: $C_{16}H_{22}NO_3$

Molecular Weight: 276.355

Accurate Mass: 276.159969

Percentage Composition: C 69.54%; H 8.02%; N 5.07%; O 17.37%

Use/Importance: Catalyst in oxidn. of alcohols

Melting Point: Mp 99-101°

Aldrich: 37134-3

Fluka: 56487

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 908B, (*ir*)

Briere, R., *CA*, 1968, **68**, 114390m, (*synth*)

Cella, J.A. *et al.*, *Chem. Comm.*, 1974, 943, (*synth*)

Plessas, N.R. *et al.*, *Carbohydr. Res.*, 1981, **89**, 211, (*glycosides*)