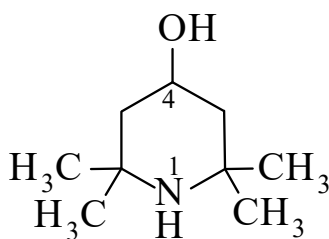




>>Entry Name: 2,2,6,6-Tetramethyl-4-piperidinol, 9CI

Synonym(s): 4-Hydroxy-2,2,6,6-tetramethylpiperidine



CAS Registry Number: 2403-88-5

Molecular Formula: C₉H₁₉NO

Molecular Weight: 157.255

Accurate Mass: 157.146664

Percentage Composition: C 68.74%; H 12.18%; N 8.91%; O 10.17%

Melting Point: Mp 134-135°

Boiling Point: Bp 212-215°

Aldrich: 11574-6

Fluka: 56515

>>Derivative: Nitroxyl radical

>>Derivative: O-Benzoyl

CAS Registry Number: 26275-88-7

Molecular Formula: C₁₆H₂₃NO₂

Molecular Weight: 261.363

Accurate Mass: 261.172879

Percentage Composition: C 73.53%; H 8.87%; N 5.36%; O 12.24%

Use/Importance: Light stabiliser for polymers

Physical Description: Cryst. (hexane)

Melting Point: Mp 94-95°

>>Derivative: N-Me

CAS Registry Number: 2403-89-6

Molecular Formula: C₁₀H₂₁NO

Molecular Weight: 171.282

Accurate Mass: 171.162314

Percentage Composition: C 70.12%; H 12.36%; N 8.18%; O 9.34%

Melting Point: Mp 73-74°

Boiling Point: Bp₁₂ 118-120°

Other Data: Forms a hydrate (Mp 60°) on exposure to moist air

>>Derivative: N-Me; hydrochloride

Melting Point: Mp 245° (dec.)

>>Derivative: Me ether, N-oxide

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 367B, (*ir*)

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Frankhauser, R. *et al.*, *Helv. Chim. Acta*, 1966, **49**, 690-695, (*synth*, N-Me)

Roselyne, B. *et al.*, *CA*, 1968, **68**, 114390m, (*synth*)

Ger. Pat., 1972, 2 204 659; *CA*, **77**, 165545j, (*synth*, use, O-benzoyl)