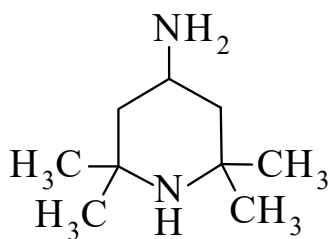




>>Entry Name: 4-Amino-2,2,6,6-tetramethylpiperidine

Synonym(s): 2,2,6,6-Tetramethyl-4-piperidinamine, 9CI



CAS Registry Number: 36768-62-4

Molecular Formula: C₉H₂₀N₂

Molecular Weight: 156.27

Accurate Mass: 156.162648

Percentage Composition: C 69.17%; H 12.90%; N 17.93%

Use/Importance: Intermed. in synth. of polymer stabilisers and pharmaceuticals

Physical Description: Liq. or cryst.

Melting Point: Mp 16-18°

Boiling Point: Bp 188-189°. Bp₇ 79°

Density: d₄²⁰ 0.9

Refractive Index: n_D²⁰ 1.4699

Aldrich: 11573-8

Fluka: 9460

Sigma: A8896

>>Derivative: 4-*N*-Ac

CAS Registry Number: 40908-37-0

Molecular Formula: C₁₁H₂₂N₂O

Molecular Weight: 198.308

Accurate Mass: 198.173213

Percentage Composition: C 66.62%; H 11.18%; N 14.13%; O 8.07%

Physical Description: Cryst.

Melting Point: Mp 120°. Mp 205° (as acetate salt)

Aldrich: 39129-8

>>Derivative: *N*¹-Oxide

Synonym(s): 4-Amino-2,2,6,6-tetramethyl-1-piperidinyloxy, 9CI. 4-Amino-TEMPO

CAS Registry Number: 14691-88-4

Molecular Formula: C₉H₁₉N₂O

Molecular Weight: 171.262

Accurate Mass: 171.149738

Percentage Composition: C 63.12%; H 11.18%; N 16.36%; O 9.34%

Use/Importance: Used in epr spectroscopy as a spin labelling reagent

Physical Description: Hygroscopic red needles or cryst. (hexane)

Melting Point: Mp 34-35°

Boiling Point: Bp₄ 97-98°

Other Data: Relatively stable free radical

>>Derivative: *N*¹-Oxide, 4-*N*-Ac

Synonym(s): 4-Acetamido-TEMPO

CAS Registry Number: 14691-89-5

Molecular Formula: C₁₁H₂₁N₂O₂

Molecular Weight: 213.299

Accurate Mass: 213.160303

Percentage Composition: C 61.94%; H 9.92%; N 13.13%; O 15.00%

Physical Description: Red cryst. (MeOH aq.)

Melting Point: Mp 147.5° (144-146°)

Aldrich: 39038-0

Fluka: 375