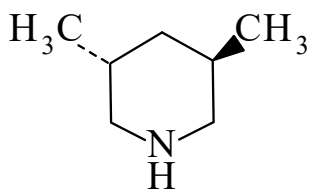




>>Entry Name: 3,5-Dimethylpiperidine



(3*R*,5*R*)-form

CAS Registry Number: 35794-11-7

Molecular Formula: C₇H₁₅N

Molecular Weight: 113.202

Accurate Mass: 113.120449

Percentage Composition: C 74.27%; H 13.36%; N 12.37%

Aldrich: 18610-4

>>Variant: (3*RS*,5*RS*)-form

Synonym(s): (±)-*trans*-form

CAS Registry Number: 32452-46-3

Molecular Formula: C₇H₁₅N

Molecular Weight: 113.202

Accurate Mass: 113.120449

Percentage Composition: C 74.27%; H 13.36%; N 12.37%

Physical Description: Liq.

Boiling Point: Bp₉ 30-31°

Other Data: Sample contg. ca. 15% *cis*-form

>>Derivative: Picrate

Melting Point: Mp 137-138.5°

>>Variant: (3*RS*,5*SR*)-form

Synonym(s): *cis*-form

CAS Registry Number: 14446-75-4

Molecular Formula: C₇H₁₅N

Molecular Weight: 113.202

Accurate Mass: 113.120449

Percentage Composition: C 74.27%; H 13.36%; N 12.37%

Physical Description: Oil with piperidine-like odour

Boiling Point: Bp 141-143°

Refractive Index: n_D²⁵ 1.4430

Other Data: Hygroscopic, strong base

>>Derivative: Hydrochloride

Physical Description: Cryst. (EtOH/Et₂O)

Melting Point: Mp 221-222°

Other Data: Hygroscopic

>>Derivative: Picrate

Physical Description: Cryst. (MeOH aq.)

Melting Point: Mp 185-186°

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **1**, 568C, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 360D, (*ir*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 452B, (*ir*)

Hoch, D. *et al.*, *Helv. Chim. Acta*, 1954, **37**, 397, (*synth*)

Hiltmann, R. *et al.*, *Synthesis*, 1971, 213, (*synth*)

Schubart, R. *et al.*, *Synthesis*, 1973, 220, (*synth*)

Duthaler, R.O. *et al.*, *J.A.C.S.*, 1977, **99**, 8406, (*pmr*)