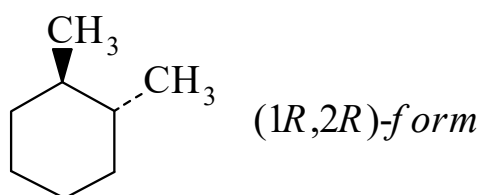




>>Entry Name: 1,2-Dimethylcyclohexane, 9CI

Synonym(s): Hexahydro-*o*-xylene



CAS Registry Number: 583-57-3

Extra CAS Registry Numbers(s): 27195-67-1

Molecular Formula: C₈H₁₆

Molecular Weight: 112.214

Accurate Mass: 112.1252

Percentage Composition: C 85.63%; H 14.37%

Hazard & Toxicity: Highly flammable, fl. p. 11°, autoignition temp. 304°

Aldrich: D15300-1

Fluka: 39970

>>Variant: (1*R*,2*R*)-form

Synonym(s): (–)-*trans*-form

Molecular Formula: C₈H₁₆

Molecular Weight: 112.214

Accurate Mass: 112.1252

Percentage Composition: C 85.63%; H 14.37%

Optical Rotation: $[\alpha]_{\text{D}}^{25} -22.4$ (c, 6.3 in CHCl₃)

>>Variant: (1*R*S,2*R*S)-form

Synonym(s): (±)-*trans*-form

CAS Registry Number: 6876-23-9

Molecular Formula: C₈H₁₆

Molecular Weight: 112.214

Accurate Mass: 112.1252

Percentage Composition: C 85.63%; H 14.37%

Melting Point: Mp –90°

Boiling Point: Bp 124°

Refractive Index: n_{D}^{18} 1.4280

Aldrich: 29064-5

Fluka: 39960

>>Variant: (1*R*S,2*S*R)-form

Synonym(s): *meso*-form. *cis*-form

CAS Registry Number: 2207-01-4

Molecular Formula: C₈H₁₆

Molecular Weight: 112.214

Accurate Mass: 112.1252

Percentage Composition: C 85.63%; H 14.37%

Melting Point: Mp –50.2°

Boiling Point: Bp 130°

Refractive Index: n_{D}^{19} 1.4360

Aldrich: 29063-7

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