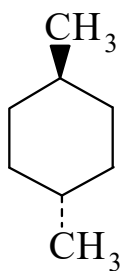




>>Entry Name: 1,4-Dimethylcyclohexane, 9CI

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



(1*R*,4*R*)-*form*

CAS Registry Number: 589-90-2

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

Molecular Formula: C<sub>8</sub>H<sub>16</sub>

Molecular Weight: 112.214

Accurate Mass: 112.1252

Percentage Composition: C 85.63%; H 14.37%

Aldrich: 11050-7

>>Variant: (1*R*,4*R*)-form

Synonym(s): *trans*-form

CAS Registry Number: 2207-04-7

Molecular Formula: C<sub>8</sub>H<sub>16</sub>

Molecular Weight: 112.214

Accurate Mass: 112.1252

Percentage Composition: C 85.63%; H 14.37%

Melting Point: Fp -37°

Boiling Point: Bp 119-120°

Refractive Index: n<sub>D</sub><sup>22</sup> 1.4210

**Hazard & Toxicity:** Highly flammable, fl. p. 11/16°, autoignition temp. 304°

Fluka: 40000

Rare Chemicals Library: S44609-2

>>Variant: (1*R*,4*S*)-form

Synonym(s): *cis*-form

CAS Registry Number: 624-29-3

Molecular Formula: C<sub>8</sub>H<sub>16</sub>

Molecular Weight: 112.214

Accurate Mass: 112.1252

Percentage Composition: C 85.63%; H 14.37%

Melting Point: Fp -87°

Boiling Point: Bp 124-125°

Refractive Index: n<sub>D</sub><sup>18</sup> 1.4291

**Hazard & Toxicity:** Highly flammable, fl. p. 10/16°

Aldrich: 11051-5

Fluka: 39990

Rare Chemicals Library: S41917-6

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