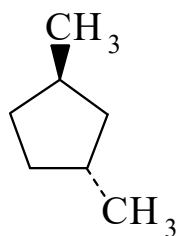




>>Entry Name: 1,3-Dimethylcyclopentane, 9CI



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

CAS Registry Number: 2453-00-1

Molecular Formula: C₇H₁₄

Molecular Weight: 98.188

Accurate Mass: 98.10955

Percentage Composition: C 85.63%; H 14.37%

>>Variant: (1*R*,3*R*)-form

Synonym(s): (+)-*trans*-form

CAS Registry Number: 930-58-5

Molecular Formula: C₇H₁₄

Molecular Weight: 98.188

Accurate Mass: 98.10955

Percentage Composition: C 85.63%; H 14.37%

Boiling Point: Bp 91.6°

Optical Rotation: [α]_D¹⁵+2.3 (neat)

>>Variant: (1*S*,3*S*)-form

Synonym(s): (–)-*trans*-form

Molecular Formula: C₇H₁₄

Molecular Weight: 98.188

Accurate Mass: 98.10955

Percentage Composition: C 85.63%; H 14.37%

Boiling Point: Bp 91.6°

Optical Rotation: [α]_D¹⁵–1.5 (neat)

>>Variant: (1*RS*,3*RS*)-form

Synonym(s): (±)-*trans*-form

CAS Registry Number: 1759-58-6

Molecular Formula: C₇H₁₄

Molecular Weight: 98.188

Accurate Mass: 98.10955

Percentage Composition: C 85.63%; H 14.37%

Melting Point: Fp –135°

Boiling Point: Bp 91.5°

Density: d₂₅²⁵ 0.744

Refractive Index: n_D²⁵ 1.4081

>>Variant: (1*RS*,3*SR*)-form

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

CAS Registry Number: 2532-58-3

Molecular Formula: C₇H₁₄

Molecular Weight: 98.188

Accurate Mass: 98.10955

Percentage Composition: C 85.63%; H 14.37%

Melting Point: Fp –133.8°

Boiling Point: Bp 90.6-90.8°

Density: d₂₅²⁵ 0.74

Refractive Index: n_D²⁵ 1.4063

References: