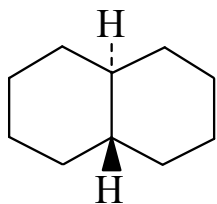




>>Entry Name: Decahydronaphthalene, 9CI

Synonym(s): Decalin. Bicyclo[4.4.0]decane. Perhydronaphthalene. Naphthan



(4aRS,8aRS)-form

CAS Registry Number: 91-17-8

Related CAS Registry Numbers(s): 28788-42-3 80997-90-6

Molecular Formula: C₁₀H₁₈

Molecular Weight: 138.252

Accurate Mass: 138.14085

Percentage Composition: C 86.88%; H 13.12%

General Statement: Commercial prod. may contain 0-60% *cis*-form and 40-100% *trans*-

Use/Importance: Solvent

Physical Description: Liq. with slight menthol odour

Other Data: Steam-volatile

Hazard & Toxicity: Irritant to mucous membranes. Anaesthetic and CNS depressant activity if inhaled. Prolonged or repeated skin contact may cause dermatitis

Aldrich: D25-1

Fluka: 30490

Sigma: D5039

>>Variant: (4aRS,8aRS)-form

Synonym(s): *trans*-form

CAS Registry Number: 493-02-7

Molecular Formula: C₁₀H₁₈

Molecular Weight: 138.252

Accurate Mass: 138.14085

Percentage Composition: C 86.88%; H 13.12%

Melting Point: Mp –31.47°

Boiling Point: Bp 185°

Refractive Index: n_D¹⁸ 1.4697

Hazard & Toxicity: Flammable, fl. p. 54/56°, autoignition temp. 255°

Aldrich: 11047-7

Fluka: 30510

>>Variant: (4aRS,8aSR)-form

Synonym(s): *cis*-form

CAS Registry Number: 493-01-6

Molecular Formula: C₁₀H₁₈

Molecular Weight: 138.252

Accurate Mass: 138.14085

Percentage Composition: C 86.88%; H 13.12%

Melting Point: Mp –43°

Boiling Point: Bp₇₆₈ 193°

Refractive Index: n_D¹⁸ 1.4811

Hazard & Toxicity: Flammable, fl. p. 54/58°, autoignition temp. 250/260°

Aldrich: 11046-9

Fluka: 30500

References: