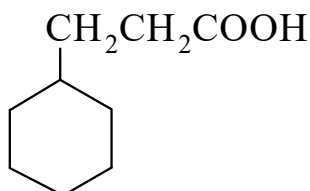




>>Entry Name: Cyclohexanepropanoic acid, 9CI

ENTRY UNDER REVIEW

Synonym(s): 3-Cyclohexylpropionic acid. Hexahydrohydrocinnamic acid. Octahydrocinnamic acid



CAS Registry Number: 701-97-3

Molecular Formula: $\text{C}_9\text{H}_{16}\text{O}_2$

Molecular Weight: 156.224

Accurate Mass: 156.11503

Percentage Composition: C 69.19%; H 10.32%; O 20.48%

Use/Importance: Insect repellent

Melting Point: Mp 16°

Boiling Point: Bp $275\text{--}280^\circ$. Bp_{0.3} 89°

Density: d_4^{20} 0.997

Refractive Index: n_D^{20} 1.4634

Aldrich: 16147-0

Fluka: 29540

>>Derivative: Me ester

CAS Registry Number: 20681-51-0

Molecular Formula: $\text{C}_{10}\text{H}_{18}\text{O}_2$

Molecular Weight: 170.251

Accurate Mass: 170.13068

Percentage Composition: C 70.55%; H 10.66%; O 18.80%

Boiling Point: Bp $222\text{--}224^\circ$

Density: d_0^{16} 0.96

Aldrich: 28043-7

>>Derivative: Et ester

Synonym(s): FEMA 2431

CAS Registry Number: 10094-36-7

Molecular Formula: $\text{C}_{11}\text{H}_{20}\text{O}_2$

Molecular Weight: 184.278

Accurate Mass: 184.14633

Percentage Composition: C 71.70%; H 10.94%; O 17.36%

Use/Importance: Insect attractant, flavouring ingredient

Physical Description: Liq. with sweet, pineapple-like taste at high dil

Boiling Point: Bp 231°

Density: d_0^{17} 0.94

Refractive Index: n_D^{17} 1.4520

Aldrich: 20959-7

>>Derivative: Propyl ester

CAS Registry Number: 16595-06-5

Molecular Formula: $\text{C}_{12}\text{H}_{22}\text{O}_2$

Molecular Weight: 198.305

Accurate Mass: 198.16198

Percentage Composition: C 72.68%; H 11.18%; O 16.14%

Use/Importance: Insect attractant

Boiling Point: Bp $251\text{--}252^\circ$

Density: d_0^{15} 0.93

Refractive Index: n_D^{15} 1.4550