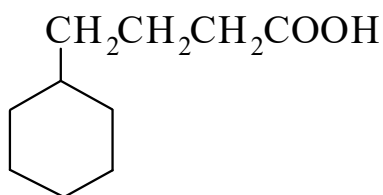




>>Entry Name: Cyclohexanebutanoic acid, 9CI

Synonym(s): 4-Cyclohexylbutyric acid



CAS Registry Number: 4441-63-8

Related CAS Registry Numbers(s): 61886-29-1 62638-03-3

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%

Use/Importance: Salts used as atomic absorption spectrophotometry standards, as cocatalysts for polymerisation reactions and as stabilisers in photographic solns.

Melting Point: Mp 31°

Boiling Point: Bp₂₀ 169° . Bp₄ $136\text{-}139^\circ$

Solubility: Insol. H_2O

pKa Value: pK_a 4.92

Other Data: Metal salts sol. many org. solvs.

Aldrich: 12761-2

Fluka: 29350

Sigma: C1922

>>Derivative: Me ester

CAS Registry Number: 15972-01-7

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%

Boiling Point: Bp₂₄ 124°

>>Derivative: Et ester

CAS Registry Number: 50934-62-8

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%

Boiling Point: Bp_{0.6} $86\text{-}87^\circ$

>>Derivative: Anhydride

Molecular Formula: $\text{C}_{20}\text{H}_{34}\text{O}_3$

Molecular Weight: 322.487

Accurate Mass: 322.250795

Percentage Composition: C 74.49%; H 10.63%; O 14.88%

Boiling Point: Bp_{0.5} $169\text{-}172^\circ$

>>Derivative: Chloride

Molecular Formula: $\text{C}_{10}\text{H}_{17}\text{ClO}$

Molecular Weight: 188.696

Accurate Mass: 188.096792

Percentage Composition: C 63.65%; H 9.08%; Cl 18.79%; O 8.48%

Boiling Point: Bp₂ $115\text{-}120^\circ$

References: