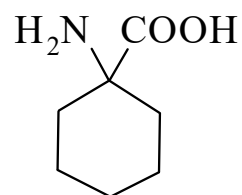




>>Entry Name: 1-Aminocyclohexanecarboxylic acid, 9CI

Synonym(s): Homocycloleucine



CAS Registry Number: 2756-85-6

Molecular Formula: $C_7H_{13}NO_2$

Molecular Weight: 143.185

Accurate Mass: 143.094629

Percentage Composition: C 58.72%; H 9.15%; N 9.78%; O 22.35%

Physical Description: Plates (H_2O) with sweet taste

Melting Point: Mp 350° (sealed tube)

Solubility: Sol. H_2O , spar. sol. hot AcOH, insol. other org. solvs.

pKa Value: pK_{a1} 2.66; pK_{a2} 10 (25°)

Aldrich: 21869-3

Fluka: 7615

Rare Chemicals Library: S17710-5

Sigma: A5428

>>Derivative: Hydrochloride

CAS Registry Number: 39692-17-6

Physical Description: Cryst. (H_2O)

Melting Point: Mp 310 dec.°

>>Derivative: Et ester

CAS Registry Number: 1664-34-2

Molecular Formula: $C_9H_{17}NO_2$

Molecular Weight: 171.239

Accurate Mass: 171.125929

Percentage Composition: C 63.13%; H 10.01%; N 8.18%; O 18.69%

Boiling Point: Bp_{14} 100°

>>Derivative: Nitrile

Synonym(s): 1-Cyanocyclohexylamine

CAS Registry Number: 5496-10-6

Molecular Formula: $C_7H_{12}N_2$

Molecular Weight: 124.185

Accurate Mass: 124.100048

Percentage Composition: C 67.70%; H 9.74%; N 22.56%

Physical Description: Cryst. (Et_2O)

Melting Point: Mp $26-27^\circ$

Solubility: Sol. H_2O , EtOH, Et_2O

Other Data: Reacts alkaline

References:

Aldrich Library of ^{13}C and 1H FT NMR Spectra, 1992, **1**, 884C, (nmr)

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Zelinsky, N. *et al.*, *Hoppe Seyler's Z. Physiol. Chem.*, 1911, **73**, 466, (synth)

Bucherer, H.Th., *J. Prakt. Chem.*, 1934, **140**, 142

Chacko, K.K. *et al.*, *J. Cryst. Mol. Struct.*, 1971, **1**, 261; 1975, **5**, 353, (cryst struct)