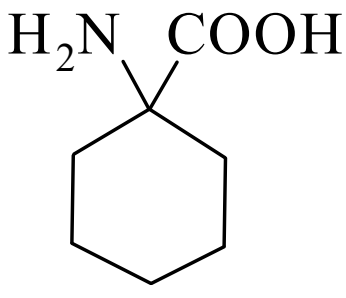
>>**Entry Name: 1-Aminocyclohexanecarboxylic acid,** 9CI
Synonym(s): Homocycloleucine



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°
Solubility: Sol. H_2O, EtOH, Et_2O
Other Data: Reacts alkaline

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **1**, 884C, *(nmr)*
Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 584D, *(ir)*
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)*