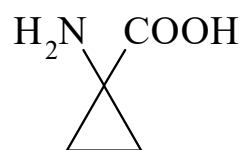




>>Entry Name: 1-Aminocyclopropanecarboxylic acid, 9CI
ENTRY UNDER REVIEW



CAS Registry Number: 22059-21-8

Related CAS Registry Numbers(s): 72784-48-6

Molecular Formula: C₄H₇NO₂

Molecular Weight: 101.105

Accurate Mass: 101.047679

Percentage Composition: C 47.52%; H 6.98%; N 13.85%; O 31.65%

Biological Source: Isol. from apple and pear juice and cranberries

Use/Importance: Prevents incorporation of Valine [BCP95-Z](#) in mammalian protein synth. Biosynth. precursor of Ethylene [BGV03-C](#) in plants

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 229-231°

Aldrich: 26872-0

Fluka: 7626

Sigma: A3903

>>Derivative: Hydrochloride

CAS Registry Number: 68781-13-5

Physical Description: Cryst. (EtOH/Et₂O)

Melting Point: Mp 228-229°

Aldrich: 30408-5

Sigma: A0430

>>Derivative: Me ester

CAS Registry Number: 72784-43-1

Molecular Formula: C₅H₉NO₂

Molecular Weight: 115.132

Accurate Mass: 115.063329

Percentage Composition: C 52.16%; H 7.88%; N 12.17%; O 27.79%

Physical Description: Liq.

Boiling Point: Bp₂₇ 45-47°

>>Derivative: Et ester

CAS Registry Number: 72784-47-5

Molecular Formula: C₆H₁₁NO₂

Molecular Weight: 129.158

Accurate Mass: 129.078979

Percentage Composition: C 55.80%; H 8.58%; N 10.84%; O 24.77%

Physical Description: Oil

Boiling Point: Bp_{6.5} 53°

>>Derivative: Nitrile

Synonym(s): 1-Cyanocyclopropylamine

CAS Registry Number: 127946-77-4

Molecular Formula: C₄H₆N₂

Molecular Weight: 82.105

Accurate Mass: 82.053098

Percentage Composition: C 58.52%; H 7.37%; N 34.12%

Physical Description: Solid (MeOH/Et₂O) (as hydrochloride)

Melting Point: Mp 223 dec.° (170-172°) (hydrochloride)