



>>Entry Name: **2-Amino-2-methylpropanoic acid**, 9CI

Synonym(s): 2-Methylalanine, 8CI. α -Aminoisobutyric acid. Aib

CAS Registry Number: 62-57-7

(H₃C)₂C(NH₂)COOH

Molecular Formula: C₄H₉NO₂

Molecular Weight: 103.121

Accurate Mass: 103.063329

Percentage Composition: C 46.59%; H 8.80%; N 13.58%; O 31.03%

Solubility: Spar. sol. EtOH; insol. Et₂O

pKa Value: pK_{a1} 2.36; pK_{a2} 10.21 (25°)

Other Data: Sublimes without melting at 280°

Aldrich: 85099-3

Fluka: 8280

Sigma: A8379

>>Derivative: Me ester

CAS Registry Number: 13257-67-5

Molecular Formula: C₅H₁₁NO₂

Molecular Weight: 117.147

Accurate Mass: 117.078979

Percentage Composition: C 51.26%; H 9.46%; N 11.96%; O 27.31%

Boiling Point: Bp 136°. Bp₂₀ 45°

>>Derivative: Me ester; hydrochloride

CAS Registry Number: 15028-41-8

Melting Point: Mp 186.5-187°

Solubility: Sol. H₂O, EtOH

Sigma: A8754

>>Derivative: Et ester

Molecular Formula: C₆H₁₃NO₂

Molecular Weight: 131.174

Accurate Mass: 131.094629

Percentage Composition: C 54.94%; H 9.99%; N 10.68%; O 24.39%

Physical Description: Cryst. (as hydrochloride)

Melting Point: Mp 159° (hydrochloride)