



>>Derivative: Amide

Molecular Formula: C₄H₁₀N₂O

Molecular Weight: 102.136

Accurate Mass: 102.079313

Percentage Composition: C 47.04%; H 9.87%; N 27.43%; O 15.66%

Physical Description: Prisms

Melting Point: Mp 74-75°

>>Derivative: Nitrile

Synonym(s): 2-Aminobutanenitrile. 2-Cyanopropylamine

CAS Registry Number: 40651-89-6

Molecular Formula: C₄H₈N₂

Molecular Weight: 84.121

Accurate Mass: 84.068748

Percentage Composition: C 57.11%; H 9.59%; N 33.30%

Melting Point: Mp 144-145° (as hydrochloride)

>>Derivative: *N*-Formyl

CAS Registry Number: 82413-57-8

Physical Description: Needles (EtOH)

Melting Point: Mp 153°

>>Derivative: *N*-Benzoyl

CAS Registry Number: 5468-52-0

Molecular Formula: C₁₁H₁₃NO₃

Molecular Weight: 207.229

Accurate Mass: 207.089544

Percentage Composition: C 63.76%; H 6.32%; N 6.76%; O 23.16%

Melting Point: Mp 145-146°

>>Derivative: *N*-Me

Synonym(s): 2-(Methylamino)butanoic acid

CAS Registry Number: 70606-05-2

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%

Physical Description: Prisms + 1H₂O

Melting Point: Mp 248 subl.°

Solubility: V. sol. H₂O; insol. Et₂O

Other Data: Sweet taste

>>Derivative: *N*-Me; hydrochloride

Melting Point: Mp 150 dec.°

>>Derivative: *N*-Me, Me 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%

Boiling Point: Bp₃₀ 64.5°