>>**Derivative:** Amide

Molecular Formula: $C_4H_{10}N_2O$
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: $C_4H_8N_2$
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: $C_{11}H_{13}NO_3$
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: $C_5H_{11}NO_2$
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 + $1H_2O$
Melting Point: Mp 248 subl.°
Solubility: V. sol. H_2O; insol. Et_2O
Other Data: Sweet taste

>>**Derivative:** *N*-Me; hydrochloride

Melting Point: Mp 150 dec.°

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

Molecular Formula: $C_6H_{13}NO_2$
Molecular Weight: 131.174
Accurate Mass: 131.094629
Percentage Composition: C 54.94%; H 9.99%; N 10.68%; O 24.39%
Boiling Point: Bp_{30} 64.5°