>>**Derivative:** Benzyl ester

**Molecular Formula:** $C_{12}H_{17}NO_2$
**Molecular Weight:** 207.272
**Accurate Mass:** 207.125929
**Percentage Composition:** C 69.54%; H 8.27%; N 6.76%; O 15.44%
**Melting Point:** Mp 109° (as hydrobromide)

>>**Derivative:** Amide
**Synonym(s):** 2-Amino-3-methylbutanamide, 9CI. Valinamide, 8CI

**CAS Registry Number:** 20108-78-5
**Physical Description:** Prisms ($C_6H_6$)
**Melting Point:** Mp 77-79°
**Solubility:** V. sol. $H_2O$, EtOH, hot $C_6H_6$; spar. sol. $Et_2O$, petrol

>>**Derivative:** Amide; hydrochloride

**CAS Registry Number:** 10466-55-4
**Physical Description:** Cryst. ($MeOH/Et_2O$)
**Melting Point:** Mp 245 dec.°

>>**Derivative:** Amide; hydrobromide

**Physical Description:** Cryst.
**Melting Point:** Mp 200 dec.°

>>**Derivative:** Nitrile
**Synonym(s):** 2-Amino-3-methylbutanenitrile, 9CI

**CAS Registry Number:** 67226-54-4
**Molecular Formula:** $C_5H_{10}N_2$
**Molecular Weight:** 98.147
**Accurate Mass:** 98.084398
**Percentage Composition:** C 61.19%; H 10.27%; N 28.54%
**Physical Description:** Unstable yellow oil
**Solubility:** V. sol. $H_2O$, EtOH, $Et_2O$

>>**Derivative:** *N*-Ac

**CAS Registry Number:** 3067-19-4
**Physical Description:** Cryst. ($H_2O$ or $Me_2CO$)
**Melting Point:** Mp 148-149°
**Fluka:** 1550
**Sigma:** A7001

>>**Derivative:** *N*-Ac, Et ester

**CAS Registry Number:** 56430-36-5
**Boiling Point:** $Bp_2$ 99°

>>**Derivative:** *N*-Ac, amide
**Synonym(s):** 2-Acetylamino-3-methylbutanamide, 9CI

**CAS Registry Number:** 78513-82-3
**Molecular Formula:** $C_7H_{14}N_2O_2$
**Molecular Weight:** 158.2
**Accurate Mass:** 158.105528
**Percentage Composition:** C 53.15%; H 8.92%; N 17.71%; O 20.23%
**Melting Point:** Mp 140-143°

>>**Derivative:** *N*-Benzoyl

**CAS Registry Number:** 2901-80-6
**Melting Point:** Mp 132.5°
**Sigma:** B6500