



Optical Rotation: $[\alpha]_{\text{D}}^{21} -45$ (c, 1 in MeOH)

Density: d 1.03

>>**Variant:** (±)-form

CAS Registry Number: 302-72-7

Molecular Formula: $\text{C}_3\text{H}_7\text{NO}_2$

Molecular Weight: 89.094

Accurate Mass: 89.047679

Percentage Composition: C 40.44%; H 7.92%; N 15.72%; O 35.92%

Use/Importance: Reference material used in elemental microanalysis

Physical Description: Needles or prisms

Melting Point: Mp 295 dec.°

Solubility: Spar. sol. H_2O ; insol. Et_2O

Aldrich: 13522-4

Fluka: 5150

Sigma: A7502

>>**Derivative:** Me ester

CAS Registry Number: 7625-53-8

Molecular Formula: $\text{C}_4\text{H}_9\text{NO}_2$

Molecular Weight: 103.121

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

Boiling Point: Bp₁₅ 38-42°

>>**Derivative:** Me ester; hydrochloride

CAS Registry Number: 13515-97-4

Melting Point: Mp 158°

Sigma: A8627

>>**Derivative:** Et ester

CAS Registry Number: 17344-99-9

Molecular Formula: $\text{C}_5\text{H}_{11}\text{NO}_2$

Molecular Weight: 117.147

Accurate Mass: 117.078979

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

Boiling Point: Bp₁₁ 48°

>>**Derivative:** Et ester; hydrochloride

CAS Registry Number: 617-27-6

Melting Point: Mp 87-88°

Aldrich: 26886-0

Fluka: 5180

Sigma: A3149

>>**Derivative:** Amide

CAS Registry Number: 20108-77-4

Molecular Formula: $\text{C}_3\text{H}_8\text{N}_2\text{O}$

Molecular Weight: 88.109

Accurate Mass: 88.063663

Percentage Composition: C 40.90%; H 9.15%; N 31.79%; O 18.16%

Melting Point: Mp 62°

>>**Derivative:** Amide; hydrochloride

CAS Registry Number: 80222-96-4

Melting Point: Mp 170°