



>>Variant: (S)-form

Synonym(s): L-form. FEMA 3297

CAS Registry Number: 61-90-5

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%

Biological Source: Obt. by hydrol. of most proteins

Biological Use/Importance: Dietary supplement, nutrient

Physical Description: Plates (EtOH aq.)

Melting Point: Mp 337 (293-295°) dec.°

Optical Rotation: $[\alpha]_D^{20} -10.42$ (H₂O). $[\alpha]_D^{15} +17.3$ (20% HCl)

Solubility: Spar. sol. H₂O (2.3 g/100 cm³ at 25°)

pKa Value: pK_{a1} 2.33; pK_{a2} 9.74 (25°)

Calculated Log P Data: Log P -1.67 (calc)

Other Data: Isoelectric point 5.98. Bitter taste

Hazard & Toxicity: Exp. reprod. and teratogenic effects (v. large doses)

Aldrich: L60-2

Fluka: 61820

Sigma: L9770

>>Derivative: Me ester

CAS Registry Number: 2666-93-5

Molecular Formula: $C_7H_{15}NO_2$

Molecular Weight: 145.201

Percentage Composition: C 57.90%; H 10.41%; N 9.65%; O 22.04%

Boiling Point: Bp₁₂ 79-79.5°

Optical Rotation: $[\alpha]_D^{17} +16.52$

>>Derivative: Me ester; hydrochloride

CAS Registry Number: 7517-19-3

Melting Point: Mp 118° (α-form). Mp 150-151° (β-form)

Optical Rotation: $[\alpha]_D^{16} +14$ (c, 1.3 in H₂O)

Aldrich: L100-2

Fluka: 61890

Sigma: L9000

Other: Oakwood 3822

>>Derivative: Et ester

CAS Registry Number: 2743-60-4

Molecular Formula: $C_8H_{17}NO_2$

Molecular Weight: 159.228

Accurate Mass: 159.125929

Percentage Composition: C 60.35%; H 10.76%; N 8.80%; O 20.10%

Boiling Point: Bp₇₆₁ 196°. Bp₁₈ 88°

>>Derivative: Et ester; hydrochloride

CAS Registry Number: 2743-40-0

Physical Description: Prisms (EtOAc/petrol)

Melting Point: Mp 134°

Optical Rotation: $[\alpha]_D +18.4$

Rare Chemicals Library: S59889-5

Sigma: L8875

Other: Oakwood 3821

>>Derivative: *tert*-Butyl ester