



>>Derivative: Et ether

CAS Registry Number: 23264-21-3

Molecular Formula: C₆H₁₀O₅

Molecular Weight: 162.142

Accurate Mass: 162.052825

Percentage Composition: C 44.45%; H 6.22%; O 49.34%

Physical Description: Cryst.

Melting Point: Mp 76-80°

Optical Rotation: [α]_D¹⁴ -66.48 (Me₂CO)

>>Variant: (±)-form

CAS Registry Number: 617-48-1

Molecular Formula: C₄H₆O₅

Molecular Weight: 134.088

Accurate Mass: 134.021525

Percentage Composition: C 35.83%; H 4.51%; O 59.66%

Use/Importance: Forms a biodegradable homopolymer suitable for use as a drug carrier. Acidulant, antioxidant, flavouring agent, flavour enhancer. Not for use in baby foods (CRAS)

Physical Description: Cryst.

Melting Point: Mp 131-133°

Solubility: Sol. MeOH, Me₂CO, H₂O

pKa Value: pK_{a1} 3.4; pK_{a2} 5.81 (25°, H₂O)

Aldrich: W50440-8

Fluka: 2310

Sigma: M0875

>>Derivative: Di-Et ester

CAS Registry Number: 626-11-9

Extra CAS Registry Numbers(s): 7554-12-3

Molecular Formula: C₈H₁₄O₅

Molecular Weight: 190.196

Percentage Composition: C 50.52%; H 7.42%; O 42.06%

Boiling Point: Bp 255°. Bp₂₇ 150-152°

Density: d₄²¹ 1.12

Aldrich: W23741-8

>>Derivative: Bis-4-nitrobenzyl ester

Melting Point: Mp 124.5°

>>Derivative: 1-Amide, 4-Me ester

Molecular Formula: C₅H₉NO₄

Molecular Weight: 147.13

Percentage Composition: C 40.82%; H 6.17%; N 9.52%; O 43.50%

Physical Description: Prisms (EtOH)

Melting Point: Mp 146°

Solubility: Sol. H₂O, EtOH, Et₂O

>>Derivative: 4-Amide

CAS Registry Number: 62445-24-3

Molecular Formula: C₄H₇NO₄

Molecular Weight: 133.104

Percentage Composition: C 36.10%; H 5.30%; N 10.52%; O 48.08%

Physical Description: Cryst.

Melting Point: Mp 148°

Solubility: Spar. sol. EtOH; insol. Et₂O

>>Derivative: 4-Amide, 1-Me ester