



Physical Description: Oil
Optical Rotation: $[\alpha]_{\text{D}} +28.7$

>>**Variant:** (1*RS*,2*RS*)-form

Synonym(s): ($\pm$)-*trans*-form

CAS Registry Number: 610-10-6
Molecular Formula: C₈H₁₂O₄
Molecular Weight: 172.18
Accurate Mass: 172.07356
Percentage Composition: C 55.81%; H 7.02%; O 37.17%
Physical Description: Leaflets (H₂O)
Melting Point: Mp 221°
pKa Value: p*K*_{a1} 4.3; p*K*_{a2} 6.06
Other Data: Dist. → anhydride of *cis*-form

>>**Derivative:** Anhydride

CAS Registry Number: 14166-21-3
Molecular Formula: C₈H₁₀O₃
Molecular Weight: 154.165
Percentage Composition: C 62.33%; H 6.54%; O 31.13%
Physical Description: Cryst. (EtOAc)
Melting Point: Mp 140-141°
Aldrich: 14829-6

>>**Variant:** (1*RS*,2*SR*)-form

Synonym(s): *cis*-form

CAS Registry Number: 610-09-3
Molecular Formula: C₈H₁₂O₄
Molecular Weight: 172.18
Accurate Mass: 172.07356
Percentage Composition: C 55.81%; H 7.02%; O 37.17%
Physical Description: Needles (EtOH)
Melting Point: Mp 192°
Solubility: Sol. H₂O, EtOH, Et₂O, C₆H₆, conc. HCl
pKa Value: p*K*_{a1} 4.44; p*K*_{a2} 6.89 (25°)
Other Data: At 180° → *trans*-form
Rare Chemicals Library: S44382-4

>>**Derivative:** Mono-Me ester

Melting Point: Mp 68-69°

>>**Derivative:** Di-Me ester

CAS Registry Number: 1687-29-2
Boiling Point: Bp₅ 110-111°
Refractive Index: n_D²⁰ 1.4590

>>**Derivative:** Dichloride

CAS Registry Number: 60901-05-5
Molecular Formula: C₈H₁₀Cl₂O₂
Molecular Weight: 209.071
Accurate Mass: 208.005784
Percentage Composition: C 45.96%; H 4.82%; Cl 33.91%; O 15.31%
Boiling Point: Bp₄ 118-123°