Melting Point: Mp 205-206° (201°)
Optical Rotation: $[\alpha]_D^{25}$+9.6 (c, 0.089 in $CHCl_3$)

>>**Derivative:** 1,4-Lactone
Synonym(s): 3,4-Dihydroxydihydro-2(3*H*)-furanone, 9CI, 8CI. D-Erythrono-1,4-lactone

CAS Registry Number: 15667-21-7

Molecular Formula: $C_4H_6O_4$
Molecular Weight: 118.089
Accurate Mass: 118.02661
Percentage Composition: C 40.68%; H 5.12%; O 54.19%
Biological Source: Found in tobacco. Oxidn. prod. of starch
Physical Description: Long needles (EtOAc)
Melting Point: Mp 104-105° (98°)
Optical Rotation: $[\alpha]_D$ –71 (c, 0.8 in H_2O)
Aldrich: 37438-5
Fluka: 45676

>>**Derivative:** 1,4-Lactone, 2,3-isopropylidene
Synonym(s): Dihydro-2,2-dimethylfuro[3,4-*d*]-1,3-dioxol-4(3*aH*)-one, 9CI

CAS Registry Number: 25581-41-3

Molecular Formula: $C_7H_{10}O_4$
Molecular Weight: 158.154
Accurate Mass: 158.05791
Percentage Composition: C 53.16%; H 6.37%; O 40.47%
Physical Description: Cryst. (Et_2O/hexane at 0°)
Melting Point: Mp 68-68.5°
Optical Rotation: $[\alpha]_D^{23}$ –112.5 (c, 1 in H_2O)
Aldrich: 37709-0
Fluka: 59430
Other: Kiralchem

>>**Derivative:** 1,4-Lactone, 3-(4-methylbenzenesulfonyl)

CAS Registry Number: 136060-76-9

Molecular Formula: $C_{11}H_{12}O_6S$
Molecular Weight: 272.278
Accurate Mass: 272.03546
Percentage Composition: C 48.52%; H 4.44%; O 35.26%; S 11.78%
Physical Description: Cryst. (EtOAc)
Melting Point: Mp 181-184°
Optical Rotation: $[\alpha]_D^{15}$ –13.2 (c, 1 in Py)
Other: Kiralchem

>>**Derivative:** Lactone, dibenzoyl
Synonym(s): 2,3-Di-*O*-benzoyl-D-erythrono-1,4-lactone

CAS Registry Number: 53176-87-7

Molecular Formula: $C_{18}H_{14}O_6$
Molecular Weight: 326.305
Accurate Mass: 326.07904
Percentage Composition: C 66.26%; H 4.32%; O 29.42%
Physical Description: Needles (MeOH aq.)
Melting Point: Mp 110-111°
Optical Rotation: $[\alpha]_D^{25}$ –176.9 (c, 0.035 in $CHCl_3$)