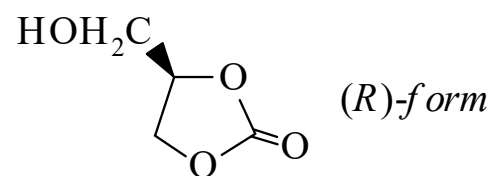




>>Entry Name: 4-Hydroxymethyl-1,3-dioxolan-2-one, 9Cl

Synonym(s): Carbonic acid cyclic (hydroxymethyl)ethylene ester, 8Cl. Glycerol 1,2-carbonate



CAS Registry Number: 931-40-8

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%

Aldrich: 45506-7

Rare Chemicals Library: S36215-8

>>Variant: (*R*)-form

CAS Registry Number: 17327-04-7

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%

Physical Description: Oil

Optical Rotation: $[\alpha]_D^{20} +43.6$

>>Derivative: *O*-Benzyl

Molecular Formula: $C_{11}H_{12}O_4$

Molecular Weight: 208.213

Accurate Mass: 208.07356

Percentage Composition: C 63.45%; H 5.81%; O 30.74%

Physical Description: Cryst. (MeOH)

Melting Point: Mp 31-33°

Boiling Point: Bp_{0.1} 148°

Optical Rotation: $[\alpha]_D^{35} +24.3$ (neat). $[\alpha]_D +12.8$ (c, 1 in $CHCl_3$)

>>Variant: (*S*)-form

CAS Registry Number: 22147-29-1

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%

Physical Description: Oil

Boiling Point: Bp_{0.1} 130°

Optical Rotation: $[\alpha]_D^{20} -41.8$ (c, 1.9 in dioxan) (96% op)

>>Derivative: *O*-Benzyl

Molecular Formula: $C_{11}H_{12}O_4$

Molecular Weight: 208.213

Accurate Mass: 208.07356

Percentage Composition: C 63.45%; H 5.81%; O 30.74%

Physical Description: Oil

Boiling Point: Bp_{0.1} 150°

Optical Rotation: $[\alpha]_D^{23} -21$ (neat)