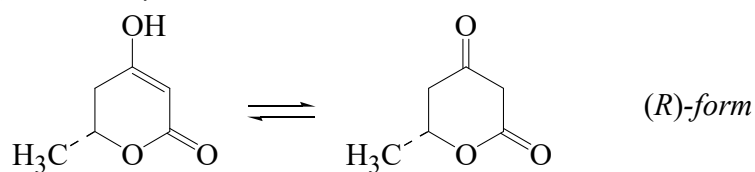




>>Entry Name: 5,6-Dihydro-4-hydroxy-6-methyl-2*H*-pyran-2-one, 9CI

Synonym(s): Dihydro-6-methyl-2*H*-pyran-2,4(3*H*)-dione, 9CI. β -Keto- δ -valerolactone



CAS Registry Number: 33177-29-6

Extra CAS Registry Numbers(s): 85825-79-2

Molecular Formula: C₆H₈O₃

Molecular Weight: 128.127

Accurate Mass: 128.047345

Percentage Composition: C 56.25%; H 6.29%; O 37.46%

Aldrich: 30968-0

>>Variant: (*R*)-form

CAS Registry Number: 148586-29-2

Molecular Formula: C₆H₈O₃

Molecular Weight: 128.127

Accurate Mass: 128.047345

Percentage Composition: C 56.25%; H 6.29%; O 37.46%

Physical Description: Cryst. (MeOH aq.)

Melting Point: Mp 135°

Optical Rotation: $[\alpha]_{\text{D}}^{25} -147.3$ (c, 2.10 in EtOH)

>>Derivative: Me ether

Synonym(s): 5,6-Dihydro-4-methoxy-6-methyl-2*H*-pyran-2-one

CAS Registry Number: 221356-83-8

Molecular Formula: C₇H₁₀O₃

Molecular Weight: 142.154

Accurate Mass: 142.062995

Percentage Composition: C 59.14%; H 7.09%; O 33.76%

Physical Description: Solid

Melting Point: Mp 61°

Optical Rotation: $[\alpha]_{\text{D}}^{25} -168.09$ (c, 1.2 in CHCl₃)

>>Variant: (*S*)-form

CAS Registry Number: 149115-92-4

Extra CAS Registry Numbers(s): 132604-11-6

Molecular Formula: C₆H₈O₃

Molecular Weight: 128.127

Accurate Mass: 128.047345

Percentage Composition: C 56.25%; H 6.29%; O 37.46%

Physical Description: Solid

Melting Point: Mp 135°

Optical Rotation: $[\alpha]_{\text{D}}^{25} +145.4$ (c, 2.1 in EtOH)

>>Derivative: *O*- β -D-Glucopyranoside

Synonym(s): Gerberin

CAS Registry Number: 125445-59-2

Molecular Formula: C₁₂H₁₈O₈

Molecular Weight: 290.269

Accurate Mass: 290.10017

Percentage Composition: C 49.65%; H 6.25%; O 44.10%

Biological Source: Constit. of *Gerbera jamesonii hybrida*

Physical Description: Amorph. powder

Optical Rotation: $[\alpha]_{\text{D}}^{19} -11.2$ (c, 1.2 in MeOH)