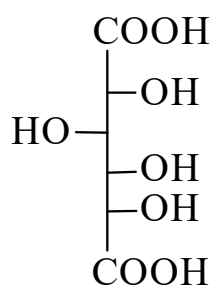




>>Entry Name: Glucaric acid, 9Cl, 8Cl

Synonym(s): Saccharic acid. Glucosaccharic acid. Hydroxalic acid. Metatartaric acid. Gularic acid



CAS Registry Number: 25525-21-7

Related CAS Registry Numbers(s): 5793-88-4

Molecular Formula: C₆H₁₀O₈

Molecular Weight: 210.14

Accurate Mass: 210.03757

Percentage Composition: C 34.29%; H 4.80%; O 60.91%

>>Variant: D-form

Synonym(s): D-Glucaric acid. L-Gularic acid

CAS Registry Number: 87-73-0

Molecular Formula: C₆H₁₀O₈

Molecular Weight: 210.14

Accurate Mass: 210.03757

Percentage Composition: C 34.29%; H 4.80%; O 60.91%

Biological Source: Readily obt. from glucose. A normal minor constit. of mammalian urine

Use/Importance: Inexpensive starting material for synthesis

Melting Point: Mp 125-126°

Optical Rotation: $[\alpha]_{\text{D}}^{19} +6.9 \rightarrow +20.6$ (18 d) (H₂O)

Solubility: V. sol. H₂O

pKa Value: pK_a 5

Other Data: Delequescent, free acid difficult to crystallise

Sigma: S0125

>>Derivative: Mono-K salt

CAS Registry Number: 576-42-1

Melting Point: Mp 188 dec.°

Optical Rotation: $[\alpha]_{\text{D}}^{21} +5$ (c, 1 in H₂O)

Aldrich: 22292-5

Sigma: S4140

>>Derivative: Di-K salt

Optical Rotation: $[\alpha]_{\text{D}} +12.6$ (H₂O)

>>Derivative: Dicyclohexylammonium salt

CAS Registry Number: 19139-85-6

Physical Description: Cryst. (2-propanol aq.)

Melting Point: Mp 191-192°

>>Derivative: Bisphenylhydrazide

CAS Registry Number: 7404-38-8

Melting Point: Mp 212°