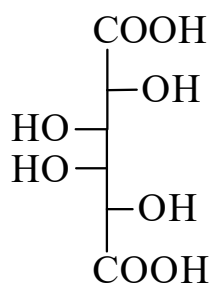




>>Entry Name: Galactaric acid, 9CI, 8CI

Synonym(s): 1,2,3,4-Tetrahydroxy-1,4-butanedicarboxylic acid. Mucic acid. Tetrahydroxyadipic acid. Galactosaccharic acid



CAS Registry Number: 526-99-8

Molecular Formula: C₆H₁₀O₈

Molecular Weight: 210.14

Accurate Mass: 210.03757

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

General Statement: A *meso*-compd., certain derivs. induce asymmetry. For stereoisomers see Glucaric acid [BTM77-V](#), Allaric acid [BWW96-T](#), Mannaric acid [BVZ51-K](#), Galactaric acid [BWF61-Y](#) and Idaric acid [BTR70-N](#)

Biological Source: Isol. from sporophylls of brown algae, various fruits and fungi

Use/Importance: Used as 2% aq. soln. to form colour complexes with Fe, Co, Cr(III), Mn, U(VI). (pH 3-10)

Physical Description: Cryst.

Melting Point: Mp 213°. Mp 225°. Mp 230 dec.°

Solubility: Sol. alkalis; spar. sol. H₂O

Hazard & Toxicity: LD₅₀ (mus, orl) 8000 mg/kg

Aldrich: M8961-7

Fluka: 84660

Sigma: M2253

>>Derivative: Bisphenylhydrazide

Melting Point: Mp 240°

>>Derivative: Mono-Et ester((±)-)

Molecular Formula: C₈H₁₄O₈

Molecular Weight: 238.194

Accurate Mass: 238.06887

Percentage Composition: C 40.34%; H 5.92%; O 53.74%

Melting Point: Mp 181-182°

>>Derivative: Di-Me ester

Synonym(s): Dimethyl galactarate

Molecular Formula: C₈H₁₄O₈

Molecular Weight: 238.194

Accurate Mass: 238.06887

Percentage Composition: C 40.34%; H 5.92%; O 53.74%

Melting Point: Mp 205°

>>Derivative: Di-Et ester

Synonym(s): Diethyl galactarate

Molecular Formula: C₁₀H₁₈O₈

Molecular Weight: 266.247

Accurate Mass: 266.10017

Percentage Composition: C 45.11%; H 6.81%; O 48.07%

Melting Point: Mp 171-172°