



Optical Rotation: $[\alpha]_{\text{D}}^{40} +39.2$ (H₂O)

>> **Derivative:** 3,4:5,6-Di-*O*-isopropylidene

Synonym(s): 3,4:5,6-Di-*O*-isopropylidene-D-gluconic acid

CAS Registry Number: 52326-97-3

Molecular Formula: C₁₂H₂₀O₇

Molecular Weight: 276.286

Accurate Mass: 276.120905

Percentage Composition: C 52.17%; H 7.30%; O 40.54%

Physical Description: Cryst. (Et₂O/hexane)

Melting Point: Mp 154-156°

Optical Rotation: $[\alpha]_{\text{D}} +13$ (c, 1 in CHCl₃)

>> **Derivative:** 3,4:5,6-Di-*O*-isopropylidene, Me ester

Synonym(s): Methyl 3,4:5,6-di-*O*-isopropylidene-D-gluconate

CAS Registry Number: 114743-85-0

Molecular Formula: C₁₃H₂₂O₇

Molecular Weight: 290.313

Accurate Mass: 290.136555

Percentage Composition: C 53.78%; H 7.64%; O 38.58%

Physical Description: Syrup

Optical Rotation: $[\alpha]_{\text{D}}^{20} +10$ (c, 1.0 in CHCl₃)

>> **Derivative:** 3,4:5,6-Di-*O*-isopropylidene, 2-Ac, Me ester

Synonym(s): Methyl 2-*O*-acetyl-3,4:5,6-di-*O*-isopropylidene-D-gluconate

CAS Registry Number: 114743-86-1

Molecular Formula: C₁₅H₂₄O₈

Molecular Weight: 332.35

Accurate Mass: 332.14712

Percentage Composition: C 54.21%; H 7.28%; O 38.51%

Melting Point: Mp 73-74°

Optical Rotation: $[\alpha]_{\text{D}}^{20} +15$ (c, 1.0 in CHCl₃)

>> **Derivative:** 3,4:5,6-Di-*O*-isopropylidene, 2-tosyl, Me ester

Synonym(s): Methyl 3,4:5,6-di-*O*-isopropylidene-2-*O*-tosyl-D-gluconate

CAS Registry Number: 114743-87-2

Molecular Formula: C₂₀H₂₈O₉S

Molecular Weight: 444.502

Accurate Mass: 444.145405

Percentage Composition: C 54.04%; H 6.35%; O 32.39%; S 7.21%

Melting Point: Mp 92-94°

Optical Rotation: $[\alpha]_{\text{D}}^{20} +34$ (c, 1.0 in CHCl₃)

>> **Derivative:** Antimonic acid diester, tri-Na salt

Synonym(s): Sodium stibogluconate, BAN. Pentostam. Solustibosan

CAS Registry Number: 16037-91-5

Extra CAS Registry Numbers(s): 100817-46-7

Molecular Formula: C₁₂H₁₇Na₃O₁₇Sb₂

Molecular Weight: 745.726

Accurate Mass: 743.823523

Percentage Composition: C 19.33%; H 2.30%; Na 9.25%; O 36.47%; Sb 32.65%

Biological Use/Importance: Antiprotozoal agent. Used clinically for the treatment of leishmaniasis

Physical Description: Nonahydrate

Other Data: Reportedly a complex mixt.