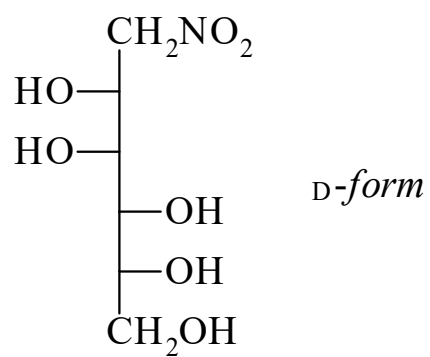




>>Entry Name: 1-Deoxy-1-nitromannitol



Molecular Formula: C₆H₁₃NO₇

Molecular Weight: 211.171

Accurate Mass: 211.069204

Percentage Composition: C 34.13%; H 6.20%; N 6.63%; O 53.04%

>>Variant: L-form

Synonym(s): 6-Deoxy-6-nitro-D-mannitol. 1-Deoxy-1-nitro-L-mannitol

CAS Registry Number: 6027-42-5

Molecular Formula: C₆H₁₃NO₇

Molecular Weight: 211.171

Accurate Mass: 211.069204

Percentage Composition: C 34.13%; H 6.20%; N 6.63%; O 53.04%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 133-134°

Optical Rotation: $[\alpha]_{\text{D}}^{25} +7$ (c, 6.2 in H₂O)

Other Data: The name 6-deoxy-6-nitro-D-mannitol is preferred for this enantiomer according to the IUPAC special rules for carbohydrates

Sigma: D3776

References:

Sowden, J.C. *et al.*, *J.A.C.S.*, 1947, **69**, 1963, (*synth*)

Sowden, J.C., *Methods Carbohydr. Chem.*, 1962, **1**, 132, (*synth*)