



CERTIFICATE OF ANALYSIS

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1. Identification

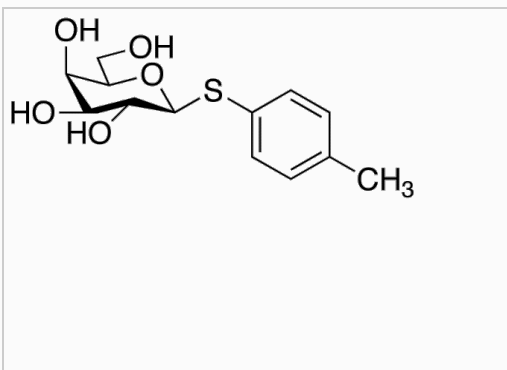
Catalogue Number: M325915

CAS Number: 28244-98-6

Product: 4-Methylphenylthio- β -D-galactopyranoside

Synonym: p-Tolyl 1-Thio- β -D-galactopyranoside;

Structure:



Molecular Formula:

C₁₃H₁₈O₅S

Molecular weight:

286.35

Source of Product:

Synthetic

Solubility:

DMF (Slightly), DMSO (Slightly), Methanol (Slightly)

Lot Number: 5-GNM-22-1

Purity: 98%

Shipping Condition: This Product Is Stable To Be Shipped At Room Temperature

Storage Condition: 4°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
NMR	Conforms to structure	Conforms
MS	Conforms to Structure	Conforms
Melting Point	Report Results	139 - 143°C
Elemental Analysis	Conforms	Refer: Additional Information
Specific Rotation	Report Results	Refer: Additional Information
Appearance		White to Off-White Solid

Additional Information:

TLC Conditions: SiO₂; Dichloromethane : Methanol = 4 : 1; Visualized with UV and AMCS; Single Spot, R_f = 0.65. 1H NMR and MS conform to structure. Elemental Analysis: (Found) %C: 52.83, %H: 6.14; (Calculated) %C: 54.53, %H: 6.34. Specific Rotation: -47.1° (c = 0.2, Methanol)

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of $\pm 2\%$. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
Philip Chan			5/23/2018	5/21/2028