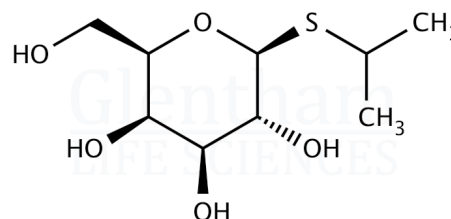


Certificate of Analysis

Product Name IPTG
Glentham Code GC6586
CAS Number 367-93-1
EINECS 206-703-0
Numéro MDL MFCD00063273
PubChem SID 310275355
Batch Number 096XEV

Molecular Weight 238.30
Molecular Formula $C_9H_{18}O_5S$
Storage Temp. +4°C



Property	Specification	Batch 096XEV
Physical Description	White crystalline powder	White crystalline powder
Solubility	Soluble in water and methanol	Conforms
Identification	IR	Conforms
pH	5.0 - 7.0 (5% in water)	5.7
UV Absorbance (5% in water)	300nm: ≤ 0.15	< 0.01
	400nm: ≤ 0.06	< 0.01
Melting Point	110 - 114 °C	113.4°C
Water (KF)	$\leq 1.0\%$	0.8%
Individual Impurity	1,4-Dioxane: Absent	Conforms
Specific Optical Rotation ($[\alpha]_{20/D}$)	-28.5 - -34.5 ° (c=1, water)	-31.9°
Purity (HPLC)	$\geq 98.0\%$	99.3%
Assay (HPLC)	98.0 - 101.0 %	99.3%

Specification Version v1.0
Manufacture Date 2023-06-01
Re-Test Date 2030-05-12

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glentham.com or contact us using the details above for the current version of this document.

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