

## Product Datasheet

### GC2102 - IPTG, 99.5%, dioxane free

Pictograms

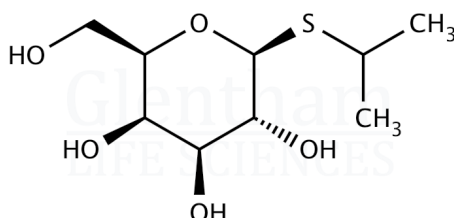


#### Product Details

Product Name	IPTG, 99.5%, dioxane free
Glenthams Code	GC2102
CAS Number	367-93-1
EINECS	206-703-0
MDL Number	MFCD00063273
Related Categories	Carbohydrates, Biochemicals, Detergents, Enzyme Substrates

#### Structure

Molecular Weight	: 238.30
Molecular Formula	: C <sub>9</sub> H <sub>18</sub> O <sub>5</sub> S



#### Glenthams Product Specification

Physical Description	: White crystalline powder
Identification (IR)	: To conform to standard
Melting Point	: 110.0 - 114.0 °C
Solubility (5% in methanol)	: Clear, colourless solution
Solubility (5% in water)	: Clear, colourless solution
pH (5% in water)	: 5.0 - 7.0
Specific Optical Rotation	: -33.5 - -29.5 ° (c=1, water)
UV Absorbance (5% in water)	: ≤ 0.13 (at 300nm)
UV Absorbance (5% in water)	: ≤ 0.06 (at 400nm)
1,4-Dioxane	: Absent
Water (KF)	: ≤ 0.5%
Purity (HPLC)	: ≥ 99.0%
Assay (HPLC)	: ≥ 99.5%
Version	: v1.0

#### About IPTG, 99.5%, dioxane free

IPTG is a compound commonly used in molecular biology, particularly in the study and use of the lac operon. It mimics the action of allolactose by binding to the lac repressor but, unlike its analogue, does not get hydrolyzed in the cell and so allows for the lac operon to be expressed at particularly high levels. This method is commonly utilised in the study of genetics and protein expression. Our product is dioxane free and is produced using raw materials of non-animal origin.

#### Storage

Recommended storage temperature: +4°C.

#### Hazards and Transport

Not classified as dangerous for transport.	
CLP Classification	Carc. 2, Eye Irr. 2A
Signal Word	Warning
Hazard Codes	H351, H319
Precautionary Codes	P281, P305+P351+P338, P308+P313, P264

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