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# **Product Datasheet**

GC6586 - IPTG

**Product Details** 

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

Related Categories Carbohydrates, Biochemicals,

Detergents, Enzyme Substrates

**Structure** 

 $\begin{array}{lll} \mbox{Molecular Weight} & : & 238.30 \\ \mbox{Molecular Formula} & : & \mbox{C}_{\rm q}\mbox{H}_{\rm 18}\mbox{O}_{\rm 5}\mbox{S} \\ \end{array}$ 

HO OH CH<sub>3</sub>

### 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

**Pictograms** 



## **Glentham Product Specification**

Physical : White crystalline powder

Description

Solubility : Soluble in water and methanol

Identification : IR

oH : 5.0 - 7.0 (5% in water)

UV Absorbance (5% in water)

300nm: ≤ 0.15

: 400nm: ≤ 0.06 Melting Point : 110 - 114 °C

Water (KF) : ≤ 1.0%

Individual : 1,4-Dioxane: Absent

Impurity

Specific Optical : -28.5 - -34.5 ° (c=1, water)

Rotation

([α]20/D)

Purity (HPLC) : ≥ 98.0%

Assay (HPLC) : 98.0 - 101.0 %

Version : v1.0

#### **About IPTG**

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.

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