

VWR

CHEMICALS

IPTG (Isopropyl-β-D-thiogalactopyranoside),
ultrapure

Abs. @300 nm (5 %, Water).....

0.13

Abs. @400 nm (5 %, Water).....

0.06

Dioxane.....

NONE

Identification (IR).....

PASS

Melting Point.....

110 - 114 °C

Moisture (KF).....

1.0 %

pH (5 %, Water) @25 °C.....

5 - 7

Purity.....

99.0 %

Solubility (5 %, Water).....

PASS

Specific Rotation (1 %, Water).....

-34.5 to -28.5 °

Cat. No.	Pk	Pack type
J436-100G	100 g	Glass bottle

IPTG (Isopropyl-β-D-thiogalactopyranoside)

A chemical analogue of galactose which cannot be hydrolysed by the enzyme β-galactosidase. IPTG is an inducer for activity of the *E.Coli* lac operon which acts by binding and inhibiting the lac repressor. Genes controlled by the lac promoter/operator sequence are expressed to high levels in the presence of IPTG. Essentially dioxane free.

Assay..... Min. 98 %

Appearance..... White crystalline powder

IR Spectrum..... Passes test

Specific optical rotation (1 %; water)..... -33 to -31 °

Dioxan..... Max. 1 ppm

Water..... Max. 1 %

Cat. No.	Pk	Pack type
437145X	10 g	Glass bottle for solids
437144N	25 g	Glass bottle for solids
437148D	1 kg	Glass bottle

IPTG (20mg/ml)

VWR

CHEMICALS

IPTG (20mg/ml), ultrapure

Commonly used inducer for β-Galactosidase activity in many bacterial gene sequences controlled by the *lac* operon. IPTG and X-Gal are often used together to identify bacterial colonies containing recombinant plasmid DNA.

Cat. No.	Pk	Pack type
E708-1ML	1 ml	Plastic tube

Iridium standard solution, 1,000 mg/l Ir in 10% hydrochloric acid

Warning

H319 H335 H315

P280 P302+P352 P304+P340 P305+P351+P338

P309+P311

CAS 7439-88-5

EINECS: 231-095-9

UN: 1789

ADR 8,II

Ir

M.W. 192.22 g/mol

Storage Temperature: Ambient temperature

Iridium standard solution, 1,000 mg/l Ir in 10% hydrochloric acid (from IrCl₃) ARISTAR® standard for ICP

(IrCl₃.3H₂O in HCl)

Traceable to SRM from NIST, tested in ISO Guide 34 /ISO17025 accredited laboratory.

Cat. No.	Pk	Pack type
455502R	100 ml	Plastic bottle
455504T	500 ml	Plastic bottle

Supplied with certificate of analysis.

Iridium standard solution, 1,000 mg/l Ir in 10% hydrochloric acid AVS TITRINORM® standard for AAS

Cat. No.	Pk	Pack type
86685.180	100 ml	Plastic bottle
86685.260	500 ml	Plastic bottle

Supplied with certificate of analysis.

Iron (reagents for the analysis of)

1,10-Phenanthroline monohydrate analytical reagent..... p.357

5-Sulphosalicylic acid dihydrate AnalAR NORMAPUR® analytical reagent . p.486

Iron

Warning

H228

P280

CAS 7439-89-6

EINECS: 231-096-4

UN: 3089

ADR 4.1,III

Fe

M.W. 55.85 g/mol

Density: 7.86 g/cm³ (20 °C)

Boiling Pt: 3000 °C (1013 hPa)

Melting Pt: 1536 °C

Storage Temperature: Ambient temperature

Iron, powder AnalAR NORMAPUR® analytical reagent, reduced by hydrogen

Assay..... Min. 99.5 %

Insolubility in sulphuric acid..... Max. 0.1 %

Cl (Chloride)..... Max. 20 ppm

S (Sulphur)..... Max. 20 ppm

As (Arsenic)..... Max. 2 ppm

Cu (Copper)..... Max. 20 ppm

Mn (Manganese)..... Max. 20 ppm

Pb (Lead)..... Max. 20 ppm

Zn (Zinc)..... Max. 20 ppm

Cat. No.	Pk	Pack type
24088.232	250 g	Plastic bottle for solids

Iron 98%, powder TECHNICAL

Assay..... Min. 98 %

Cat. No.	Pk	Pack type
24086.292	1 kg	Plastic bottle for solids

Iron standard solution, 10,000 mg/l Fe in dil. nitric acid

Warning

H319 H315

P280 P302+P352 P305+P351+P338

CAS 7439-89-6

EINECS: 231-096-4

UN: 3264

ADR 8,III

Fe

M.W. 55.85 g/mol

Storage Temperature: Ambient temperature

248 | CHEMICAL CATALOGUE | VWR INTERNATIONAL

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