

Technical Data Sheet

Potassium Iodide USP/BP/IP/FCC/Ph Eur

Product name : Potassium iodide Manufacturer : AbtinChem Inc.
Chemical formula : KI Tell : (+98) 21-284261
Molecular weight : 166
Grade : USP/BP/IP/FCC/Ph Eur

USES

ANTI-THYROID, FILM PHOTOGRAPHY, INTERMEDIATE FOR PHARMACEUTICAL SYNTHESIS, LCD/TFT, NYLON, POLYAMIDE, DISINFECTANT, ANTIBACTERIAL, TREATMENT FOR EXPOSURE TO RADIOACTIVITY. IODIZED SALT, ETC.

1 KG POLY ETHYLENS BOTTLE

5 KG WOODEN BOX WITH 2 LAYER POLY ETHYLENS LINING

25 KG WOODEN BOX WITH 2 LAYER POLY ETHYLENS LINING

EXPIRY DATE: FIVE YEARS FROM DATE OF MANUFACTURING

STORE IN CLOSED CONTAINER IN COOL, DRY PLACE & PROTECT FROM LIGHT, HEAT DUST & OTHER CONTAMINANTS

USP : united state Pharmacopeia (results are based on USP 29-NF24 page 1772)

Ph.Eur or EP: European Pharmacopeia

BP: British Pharmacopoeia

IP: Indian Pharmacopeia

FCC: food chemical codex

Pictograms



Specifications					
Description	USP	Ph Eur/BP	IP	FCC	Test results
Appearance	HEXAHEDRAL CRYSTAL, EITHER TRANSPARENT AND COLORLESS OR SOMEWHAT OPAQUE AND WHITE OR A WHITE GRANULAR POWDER.	WHITE OR ALMOST WHITE POWDER OR COLOUR LESS CRYSTALS	COLOURLESS CRYSTAL OR A WHITE POWDER, ODOURLESS	HEXAHEDRAL CRYSTAL, EITHER TRANSPARENT AND COLORLESS OR SOMEWHAT OPAQUE AND WHITE OR A WHITE GRANULAR POWDER.	HEXAHEDRAL CRYSTAL, EITHER TRANSPARENT AND COLORLESS OR SOMEWHAT OPAQUE AND WHITE
SOLUBILITY	VERY SOLUBLE IN WATER, FREELY SOLUBLE IN GLYCEROL, SOLUBLE IN ETHANOL (96 %)	VERY SOLUBLE IN WATER, FREELY SOLUBLE IN GLYCEROL, SOLUBLE IN ETHANOL (96 %)	VERY SOLUBLE IN WATER, FREELY SOLUBLE IN GLYCEROL, SOLUBLE IN ETHANOL (96 %)	ONE GRAM IS SOLUBLE IN 0.7 ML of WATER AT 25C, IN 0.5 ML OF BOILING WATER, IN 2 ML OF GLYCERIN, AND IN 22 ML OF ALCOHOL	VERY SOLUBLE IN WATER, FREELY SOLUBLE IN GLYCEROL, SOLUBLE IN ETHANOL (96 %)
Identification	N/A	N/A	N/A	A 1:10 AQUEOUS SOLUTION RESPONDS TO THE TESTSFORPOTASSIUM AND FOR LODIDE	Pass test
IODIDE TEST	IT MEETS THE REQUIREMENTS OF IODIDE TEST	IT MEETS THE REQUIREMENTS OF IODIDE TEST	IT MEETS THE REQUIREMENTS OF IODIDE TEST	N/A	IT MEETS THE REQUIREMENTS OF IODIDE TEST
POTASSIUM TEST	IT MEETS THE REQUIREMENTS OF POTASSIUM TEST	IT MEETS THE REQUIREMENTS OF POTASSIUM TEST	IT MEETS THE REQUIREMENTS OF POTASSIUM TEST	N/A	IT MEETS THE REQUIREMENTS OF POTASSIUM TEST
APPEARANCE OF SOLUTION	THE SOLUTION IS CLEAR AND COLOURLESS	THE SOLUTION IS CLEAR AND COLOURLESS	THE SOLUTION IS CLEAR AND COLOURLESS	N/A	THE SOLUTION IS CLEAR AND COLOURLESS
ALKALINITY	NO COLOUR IS PRODUCE	NOT MORE THAN 0.5 ML OF 0.01 M HCL IS REQUIRED	NO COLOUR IS PRODUCE	N/A	Passes test for all pharmacopoeias
IODATES	NOT MORE THAN 4 µGram PER GRAM	NO BLUE COLOUR DEVELOPS	NO BLUE COLOUR DEVELOPS	NOT MORE THAN 4 µGRAM PER GRAM	Passes test for all pharmacopoeias

SULFATES	N/A	MAX 150 PPM	MAX 150 PPM	N/A	<150 PPm
THIOSULFATES	N/A	A BLUE COLOUR IS PRODUCE	A BLUE COLOUR IS PRODUCE	N/A	Pass test
IRON	N/A	MAX 20 PPM	MAX 20 PPM	N/A	<20PPm
LOSS ON DRYING	MAX 1.0 %	MAX1.0 %	MAX 1.0 %	MAX 1.0 %	0.5 %
LIMIT OF NITRATE, NITRITE AND AMMONIA	NO BLUE COLOUR ON THE PAPER IS DISCERNIBLE	N/A	N/A	NO BLUE COLOUR ON THE PAPER IS DISCERNIBLE	Pass test
THIOSULFATE AND BARIUM	NO TURBIDITY DEVELOP WITHIN 1 MINUTE	N/A	N/A	N/A	Pass test
ASSAY BY TITRATION	99.0 % TO 101.5% CALCULATED ON THE DRIED BASIS	99.0 % TO 100.5% CALCULATED ON THE DRIED BASIS	99.0 % TO 100.5% CALCULATED ON THE DRIED BASIS	99.0 % TO 101.5% CALCULATED ON THE DRIED BASIS	99 %
PH OF 5 % SOLUTION	6.0 – 9.0	6.0 – 9.0	6.0 – 9.0	6.0 - 10	7.0
Chloride and bromide (as Cl):	N/A	N/A	N/A	N/A	0.005%
<u>Barium</u>	N/A	N/A	NO TURBIDITY DEVELOPS WITHIN ONE MINUTE	N/A	Pass test
<u>Arsenic</u>	N/A	N/A	MAXIMUM 2 PPM	N/A	< 2 PPm
Heavy metals (as Pb):	0.001%	0.001%	0.001%	N/A	< 10 PPm
Lead	N/A	N/A	N/A	NOT MORE THAN 4 mg/kg	0
Insoluble material	N/A	N/A	N/A	N/A	Maximum 0.005%

