



G. AMPHRAY LABORATORIES

POTASSIUM IODIDE BP/EP/USP/IP

CAS No. 7681-11-0

KI

PRODUCT DATA SHEET

MOLECULAR WEIGHT : 166.0

INFORMATION OF THE PRODUCT

Sr.No.	INFORMATION																															
1	NAME OF THE PRODUCT	: POTASSIUM IODIDE BP/EP/USP/IP																														
2	STRUCTURE	: KI																														
3	COMPOSITION	: IT IS IONIC , MADE OF K ⁺ ION AND I ION IN 1:1 RATIO																														
4	CHEMICAL NAME (IUPAC)	: POTASSIUM IODIDE																														
5	PROPERTIES	: ANTITHYROID ,ANTIFUNGAL,EXPECTORANT																														
6	SPECIFICATION	: <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">APPEARANCE (PH. EUR.)</td> <td>WHITE OR ALMOST WHITE POWDER OR COLOUR LESS CRYSTAL.</td> </tr> <tr> <td>DESCRIPTION (USP)</td> <td>HEXAHEDRAL CRYSTAL, EITHER TRANSPARENT AND COLORLESS OR SOMEWHAT OPAQUE AND WHITE OR A WHITE GRANULAR POWDER.</td> </tr> <tr> <td>DESCRIPTION (IP)</td> <td>COLOURLESS CRYSTAL OR A WHITE POWDER, ODOURLESS.</td> </tr> <tr> <td>SOLUBILITY (PH. EUR./ USP)</td> <td>VERY SOLUBLE IN WATER, FREELY SOLUBLE IN GLYCEROL, SOLUBLE IN ETHANOL (96 %).</td> </tr> <tr> <td colspan="2">IDENTIFICATION</td> </tr> <tr> <td>A) IODIDE TEST (PH. EUR. / USP / IP)</td> <td>IT MEETS THE REQUIREMENTS OF IODIDE TEST.</td> </tr> <tr> <td>B) POTASSIUM TEST (PH. EUR. / USP / IP)</td> <td>IT MEETS THE REQUIREMENTS OF POTASSIUM TEST.</td> </tr> <tr> <td>APPEARANCE OF SOLUTION (PH. EUR. / IP)</td> <td>THE SOLUTION IS CLEAR AND COLOURLESS</td> </tr> <tr> <td>ALKALINITY (PH. EUR.)</td> <td>NOT MORE THAN 0.5 ML OF 0.01 M HCL IS REQUIRED</td> </tr> <tr> <td>ALKALINITY (USP / IP)</td> <td>NO COLOUR IS PRODUCE</td> </tr> <tr> <td>IODATES (PH. EUR./IP)</td> <td>NO BLUE COLOUR DEVELOPS</td> </tr> <tr> <td>IODATE (USP)</td> <td>NOT MORE THAN 4 μG PER G</td> </tr> <tr> <td>SULFATES (PH. EUR./IP)</td> <td>MAXIMUM 150 PPM</td> </tr> <tr> <td>THIOSULFATES (PH. EUR./IP)</td> <td>A BLUE COLOUR IS PRODUCE</td> </tr> <tr> <td>IRON (PH. EUR./IP)</td> <td>MAXIMUM 20 PPM</td> </tr> </table>	APPEARANCE (PH. EUR.)	WHITE OR ALMOST WHITE POWDER OR COLOUR LESS CRYSTAL.	DESCRIPTION (USP)	HEXAHEDRAL CRYSTAL, EITHER TRANSPARENT AND COLORLESS OR SOMEWHAT OPAQUE AND WHITE OR A WHITE GRANULAR POWDER.	DESCRIPTION (IP)	COLOURLESS CRYSTAL OR A WHITE POWDER, ODOURLESS.	SOLUBILITY (PH. EUR./ USP)	VERY SOLUBLE IN WATER, FREELY SOLUBLE IN GLYCEROL, SOLUBLE IN ETHANOL (96 %).	IDENTIFICATION		A) IODIDE TEST (PH. EUR. / USP / IP)	IT MEETS THE REQUIREMENTS OF IODIDE TEST.	B) POTASSIUM TEST (PH. EUR. / USP / IP)	IT MEETS THE REQUIREMENTS OF POTASSIUM TEST.	APPEARANCE OF SOLUTION (PH. EUR. / IP)	THE SOLUTION IS CLEAR AND COLOURLESS	ALKALINITY (PH. EUR.)	NOT MORE THAN 0.5 ML OF 0.01 M HCL IS REQUIRED	ALKALINITY (USP / IP)	NO COLOUR IS PRODUCE	IODATES (PH. EUR./IP)	NO BLUE COLOUR DEVELOPS	IODATE (USP)	NOT MORE THAN 4 μG PER G	SULFATES (PH. EUR./IP)	MAXIMUM 150 PPM	THIOSULFATES (PH. EUR./IP)	A BLUE COLOUR IS PRODUCE	IRON (PH. EUR./IP)	MAXIMUM 20 PPM
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			HEAVY METAL (PH. EUR. / USP / IP)	MAXIMUM 10 PPM										
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			LOSS ON DRYING (PH. EUR./ USP/ IP)	MAXIMUM 1.0 %										
			LIMIT OF NITRATE, NITRITE AND AMMONIA (USP)	NO BLUE COLOUR ON THE PAPER IS DISCERNIBLE										
			THIOSULFATE AND BARIUM (USP)	NO TURBIDITY DEVELOP WITHIN 1 MINUTE										
			ARSENIC (IP)	NOT MORE THAN 2 PPM										
			BARIUM (IP)	NO TURBIDITY DEVELOP WITHIN 1 MINUTE										
			CYANIDE (IP)	NO BLUE COLOUR IS PRODUCE										
			ASSAY											
			A) ASSAY BY TITRATION (PH.EUR./ IP)	99.0 % TO 100.5% CALCULATED ON THE DRIED BASIS										
			B) ASSAY BY TITRATION (USP)	99.0 % TO 101.5% CALCULATED ON THE DRIED BASIS										
			ADDITIONAL TESTS (IN-HOUSE)											
			PH OF 5 % SOLUTION	6.0 – 9.0										
			PARTICLE SIZE	~ 100 % PASSING THROUGH 16 MESH										
			BULK DENSITY	~ 1.5 G/ML (APPROX.)										
7	USES	:	ANTI-THYROID, FILM PHOTOGRAPHY, INTERMEDIATE FOR PHARMACEUTICAL SYNTHESIS, LCD/TFT, NYLON, POLYAMIDE, DISINFECTANT, ANTIBACTERIAL, TREATMENT FOR EXPOSURE TO RADIOACTIVITY. IODIZED SALT, ETC.											
8	DOSAGE	:	RECOMMENDED DOSAGE FORM FOR RADIOLOGICAL EMERGENCIES INVOLVING RADIOACTIVE IODINE											
			<table border="1"> <thead> <tr> <th>AGE</th> <th>KI IN MG</th> </tr> </thead> <tbody> <tr> <td>OVER 12 YEARS OLD</td> <td>130</td> </tr> <tr> <td>3 TO 12 YEARS</td> <td>65</td> </tr> <tr> <td>1 TO 36 MONTH OLD</td> <td>32</td> </tr> <tr> <td>< 1 MONTH</td> <td>16</td> </tr> </tbody> </table>		AGE	KI IN MG	OVER 12 YEARS OLD	130	3 TO 12 YEARS	65	1 TO 36 MONTH OLD	32	< 1 MONTH	16
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			REF : WIKIPEDIA											
9	PACKING	:	25 / 50 KG. HDPE DRUMS & 25 KG. KRAFT PAPER BAGS CUSTOMIZED AS PER BUYER REQUIREMENTS											
10	SHELF LIFE	:	EXPIRY DATE: FIVE YEARS FROM DATE OF MANUFACTURING.											
11	STORAGE	:	STORE IN CLOSED CONTAINER IN COOL, DRY PLACE & PROTECT FROM LIGHT, HEAT DUST & OTHER CONTAMINANTS.											