



G. AMPHRAY LABORATORIES

Potassium Iodate BP/EP/FCC		Product Data Sheet	
CAS No. 7758-05-6		Molecular Weight : 214.0	
KIO ₃			
INFORMATION OF THE PRODUCT			
Sr.No.	Information		
1	Name of the Product	:	Potassium Iodate Bp/EP/FCC
2	Structure	:	KIO ₃
3	Composition	:	It is composition of K ⁺ ion and IO ₃ ⁻ ion
4	Chemical Name (IUPAC)	:	Potassium Iodate
5	Properties	:	Oxidizing agent , Reducing agent
6	Specification	:	<p>White Odorless free flowing crystal complies with Food Chemical Codex (FCC VIII)</p> <p>Appearance (As per Ph.Eur. /FCC) White Odorless free flowing crystal, A white crystalline powder.</p> <p>Solubility (As per Ph.Eur. /FCC) Soluble in Water</p> <p>Identification (As per Ph.Eur.)</p> <p>A)Potassium Gives reactions of Potassium.</p> <p>B) Iodate A Yellow precipitate is produced</p> <p>Iodide as I (As per Ph. Eur./FCC) NMT 0.002 %</p> <p>Chlorate as ClO₃(As per FCC) NMT 0.01 %</p> <p>Lead as Pb (As per FCC) NMT 4 mg/ kg</p> <p>pH of 5 % solution (As per FCC) Between 5 and 8.</p> <p>Acidity or alkalinity (As per Ph.Eur.) pH of 5% w/v solution between 5.0 to 8.0</p> <p>Clarity & color of solution (As per Ph.Eur.) Clear colorless solution.</p> <p>Chloride, Chlorate, Bromide & Bromate (As per Ph.Eur.) Not more than 0.02 %</p> <p>Sulfates (As per Ph.Eur.) Not more than 50 ppm</p> <p>Heavy Metals (As per Ph.Eur.) Not more than 20 ppm</p> <p>Loss on drying (As per Ph.Eur.) Not more than 0.5 %</p> <p>Assay (As per Ph.Eur. / FCC) NLT 99.0% - NMT 101.0% ondried basis</p> <p>Additional In-House tests</p> <p>Particle size ~ 100 % passing through 30 mesh</p> <p>Bulk density ~ 2.10 g/ml (Approx.)</p>
7	Uses	:	<p>Iodination of edible salt ,Animal Feed Supplements</p> <p>Manufacturing of Iodine Compound, Treatment for exposure to radioactivity.</p> <p>Ref .Wikipedia</p>



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Sr.No.	Information											
8	Dosage	: Recommended dosage form for radiological emergencies involving radioactive Iodine <table border="1"><thead><tr><th>Age</th><th>KIO₃ in mg</th></tr></thead><tbody><tr><td>Over 12 years old</td><td>170</td></tr><tr><td>3 to 12 years</td><td>85</td></tr><tr><td>1 to 36 month old</td><td>42</td></tr><tr><td>< 1 month</td><td>21</td></tr></tbody></table> Source : Wikipedia	Age	KIO ₃ in mg	Over 12 years old	170	3 to 12 years	85	1 to 36 month old	42	< 1 month	21
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Over 12 years old	170											
3 to 12 years	85											
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< 1 month	21											
9	Packing	: 25 kg net UN Approved HDPE Drums with inner liner. Class 5.1 UN 1479										
10	Shelf life	: Expiry Date: Three years from Date of manufacturing.										
11	Storage	: Store in closed container in cool, dry place & protect from light, heat dust & other contaminants.										