



POTASSIUM PERIODATE - Physical & Chemical Properties [Potassium metaperiodate, Potassium tetraoxiodate (VII)]

CASR No.	[7790-21-8]
EC-No.	232-196-0
HS-No.	2829 90 80
Road / Rail	5.1 27 a
IMDG Code	5.1 / I UN 1479
IATA / DGR	5.1 81UN 1479 CAO 512 PAX 509
Packing-cat	L
Poison class	(CH) 2
RTECS	-----
Merck-Index	10, 7536
Mol. Formula	KIO ₄
Mol. Weight	230.00
Bulk Density	1500 – 1800 kg / m ³
Specific Density, 15 °C	3.62 g / cm ³
Melting Range	580 – 581 °C
Thermal Decomposition	@ mp
Solubility in H ₂ O, 20 °C	700 mg per 100 ml
pH value (500 mg / 100 ml, H ₂ O, 25 °C)	5.1
Atmospheric Susceptibility	Slow decomposition under light & moisture
Chemical Reaction	Oxidizing, Corrosive

Relevant Risk, Safety & Disposal Aspects

Risk	R 8	Contact with combustible matter at higher temperature may cause fire.
Safety	S 26	Contact with eyes rinse immediately with plenty of water and seek medical help.
	S 37 / 39	Wear suitable gloves. Wear eye / face protection.
	S 45	In case of accident seek expert and medical advice.
Disposal	D 22	Render harmless by reduction with Sodium thiosulphate solution.

Application, Storage & Packing

Application	Oxidizing agent in Organic & Inorganic Synthesis.
Storage	Store in a well closed container.
Packing	In 25 kg with double polythene bags inside HDPE Drum.



POTASSIUM METAPERIODATE - LR

Description	White fine crystalline powder
Assay (iodometric, dry basis)	min. 99.5 %

Maximum Limits of Impurities

Bromide, chlorate & chloride (as Cl)	0.02 %
Sulphate (SO ₄)	0.01 %
Manganese (Mn)	0.0003 %