



SODIUM PERIODATE - Physical & Chemical Properties [Sodium metaperiodate, Sodium tetraoxiodate (VII)]

CASR No.	[7790-28-5]
EC-No.	232-197-6
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) 3
RTECS	SD4550000
Merck-Index	10, 8478
Mol. Formula	NaIO ₄
Mol. Weight	213.89
Bulk Density	2000 – 2400 kg / m ³
Specific Density, 20 °C	3.865 g /cm ³
Melting Range	173 – 175 °C
Boiling point	300 °C
Thermal Decomposition	@ mp
Solubility in H ₂ O, 20 °C	9.1 g per 100 ml
pH value (5 g / 100 ml, H ₂ O, 20 °C)	5.2
Atmospheric Susceptibility	Slow decn. 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	Wear suitable gloves.
	S 39	Wear eye / face protection
	S 45	In case of accident seek expert and medical advice.
Disposal	D 22	Should be rendered harmless by reduction with acidic Sodium thiosulphate solution.

Application, Storage & Packing

Application	As an oxidizing agent & drug intermediate.
Storage	Store in a well closed container.
Packing	In 25 kg with double polythene bags inside HDPE Drum.



SODIUM METAPERIODATE - LR

Description	White fine crystalline powder
Assay (iodometric, dry basis)	min. 99.0 %

Maximum Limits of Impurities

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