



Specialized in chemicals

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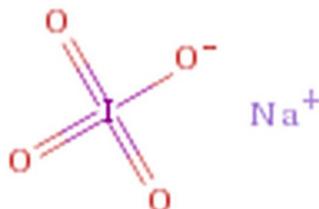
Technical Data Sheet

Sodium periodate

Product Information

Chemical Name	Sodium periodate
CAS #	7790-28-5
Formula	NaIO ₄
Molecular Weight	213.8918
Synonyms	Sodium Metaperiodate; Sodium Metapriodate; Sodium (Meta)Periodate

Chemical Structure



Description

Sodium periodate is White or colorless,oxidative crystalline powder. Incompatible with organic materials, combustible materials. Forms explosive mixtures with reducing agents, finely powdered metals, magnesium.

Physical Properties

Melting point, °C .	300
Boiling point, °C	300
Density , g/cm ³	3.865

Specification

Item	Specification
Assay, % min.	99.20
Heavy metals, %.	<0.002
Loss on Dry, %.	<1.0

Safety

Formamide is corrosive to the eyes, skin and respiratory tract
Always refer to the Material Safety Data Sheet (MSDS)

Applications

Sodium periodate is used to oxidize cellulose and create a biocompatible and biodegradable compound that can be used as suture, as a scaffold for tissue engineering, or for drug delivery.
Sodium periodate can be used in solution to open saccharide rings between vicinal diols leaving two aldehyde groups. This process is often used in labeling saccharides with fluorescent molecules or other tags such as biotin. Because the process requires vicinal diols, periodate oxidation is often used to selectively label the 3'-termini of RNA (ribose has vicinal diols) instead of DNA as deoxyribose does not have vicinal diols.

Packaging

25kg per drum.
9 mt per 20ft container

Storage & Handling

Sodium periodate has a shelf life of 24 months in unopened, and Lid to be sealed to prevent leaks, avoid contact with water. Storage in a cool dry and ventilated place away from fire, heat. Please refer to the Materials Safety Data Sheet (MSDS) for the handling methods.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

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