



*Specialized in chemicals*

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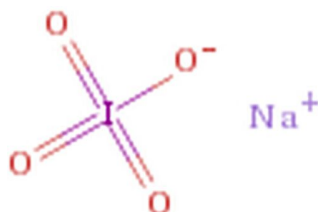
## Technical Data Sheet

# Sodium periodate

### Product Information

Chemical Name	Sodium periodate
CAS #	7790-28-5
Formula	NaIO <sub>4</sub>
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 <sup>3</sup>	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.

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchant ability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we has been advised of the possibility of such damages.*

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