

## Certificate of Analysis

**Product Name:** Sodium phosphate dibasic

**Catalog No.:** 3153

**Batch No.:** 2

CAS Number: 7558-79-4

EC Number: 231-448-7

IUPAC Name: Disodium hydrogen phosphate

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:**  $\text{Na}_2\text{HPO}_4$   
**Batch Molecular Weight:** 141.96  
**Physical Appearance:** White solid  
**Solubility:** water to 300 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**  $\text{Na}_2\text{HPO}_4$

### 2. ANALYTICAL DATA

**Assay (titration):** 99.5%  
**pH (5% water at 25°C):** 9.0  
**Heavy metals:** <16ppm  
**Cation traces: Iron:** <20ppm  
**Anion traces: Chloride:** <20ppm  
**Sulfate:** <50ppm

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

## Product Information

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**Catalog No.:** 3153

**Batch No.:** 2

CAS Number: 7558-79-4

EC Number: 231-448-7

IUPAC Name: Disodium hydrogen phosphate

**Description:**

Commonly used in biological assay buffers.

**Physical and Chemical Properties:**

Batch Molecular Formula: Na<sub>2</sub>HPO<sub>4</sub>

Batch Molecular Weight: 141.96

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**

Na<sub>2</sub>HPO<sub>4</sub>

**Storage:** Store at RT

**Solubility & Usage Info:**

water to 300 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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