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**JIS K 8624** : 2006

(JRA/JSA)

**Sodium carbonate decahydrate  
(Reagent)**

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Reference number : **JIS K 8624 : 2006 (E)**

## Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by Japan Reagent Association (JRA)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14.

Consequently **JIS K 8624**: 1996 is replaced with this Standard.

This Standard has been made based on **ISO 6353-2**:1983 *Reagents for chemical analysis—Part 2: Specifications—First series* for the purposes of making it easier to compare this Standard with International Standard; to prepare Japanese Industrial Standard conforming with International Standard; and to propose a draft of an International Standard which is based on Japanese Industrial Standard.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

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In the event of any doubts arising as to the contents,  
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# Sodium carbonate decahydrate (Reagent)



**Introduction** This Japanese Industrial Standard has been prepared based on the first edition of **ISO 6353-2** *Reagents for chemical analysis—Part 2: Specifications—First series* published in 1983 with some modifications of the technical contents.

The portions given continuous sidelines or dotted underlines are the matters in which the contents of the original International Standard have been modified. A list of modifications with the explanations is given in Annex (informative).

**1 Scope** This Standard specifies the sodium carbonate decahydrate to be used as a reagent.

NOTE : The International Standard corresponding to this Standard is as follows.

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21**.

ISO 6353-2:1983 *Reagents for chemical analysis—Part 2: Specifications—First series* (MOD)

**2 Normative references** The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS K 0116 *General rules for atomic emission spectrometry*

JIS K 0970 *Piston operated micro-volumetric apparatus*

JIS K 8001 *General rule for test methods of reagents*

JIS K 9901 *Highly purified nitric acid*

**3 General matters** The general matters of test method shall be in accordance with **JIS K 8001**.

**4 Classification** The classification shall be the guaranteed reagent.

## 5 Properties

**5.1 Characteristics** Sodium carbonate decahydrate is colourless crystal, easily efflorescent and melts at about 32 °C. It easily dissolves in water, however hardly dissolves in ethanol.

**5.2 Qualitative test method** The qualitative test method shall be as follows.

- a) Add 10 ml of water to 0.5 g of the sample to dissolve, and the property of solution is about pH 12. When 10 ml of hydrochloric acid (1+3) is added into this solution, it bubbles.