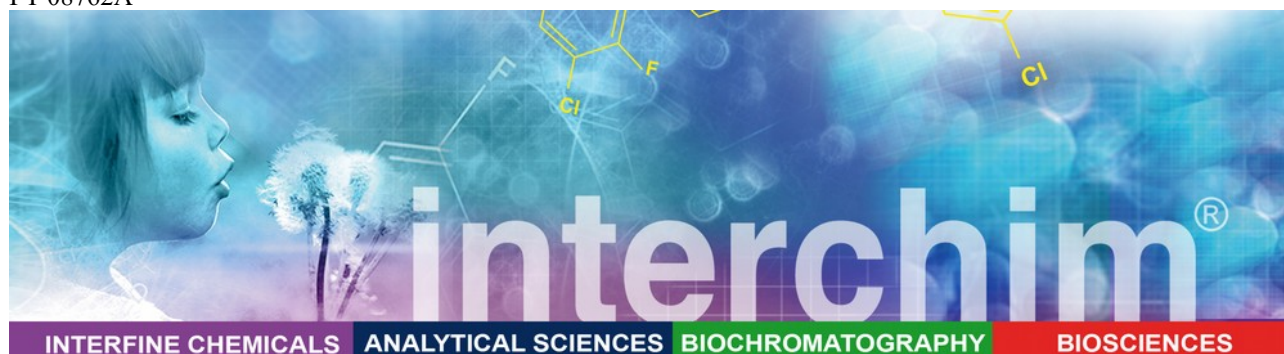
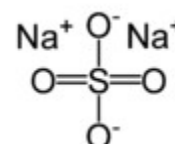


FT-08762A



Sodium Sulfate

Product Information



Chemical name :

Sodium Sulfate, ACS grade

Dibasic sodium sulfate;

Syn.: Na₂SO₄, sodium salt of sulfuric acid, Disodium sulfate; Bisodium sulfate;

Disodium monosulfate; (All.): disodium sulphate; Natriumsulfat; sodium sulphate

CAS: 7757-82-6 **EC number:** 231-820-9

Cat. Number :

08762A, 500g 08762B, 1Kg 08762C, 2.5Kg 08762-B, Bulk

Structure : Na₂SO₄ (anh.)

Molecular Weight : 142.04

Properties:

Form: white solid crystalline powder (hygroscopic)

Density: 2.664 g/cm³ Melting point: 884°C Boiling point: 1429°C

Refractive index (nD)/ 1.468 pKa: 10.329 and 6.351(carbonic acid)

Solubility: readily soluble in water >4% w/v

Storage:

Room temperature (z)

Safety:

Irritant. Non-flammable.

Risk Statements: 36/37/38

Safety Statements: 36/37/39

Applications: Suitable for many biochemistry and biotechnology applications.

Specifications

Test	Specifications
Purity	>99.0%
Calcium (%)	0.01
Chloride (%)	0.001
Heavy Metals (as Pb)	0.0005
Iron (%)	0.001
Magnesium (%)	0.005%
Nitrogen compounds (%)	0.0005%
Phosphates (%)	0.001%
Insolubles	0.001%
Loss on Ignition (%)	0.5
pH (5%, water, 25°C)	0.01

+

Technical information

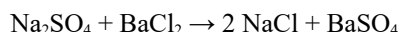
● Chemistry

Sodium sulfate is a neutral salt, which forms aqueous solutions with pH of 7. The Na⁺ ion weakly polarizes its water ligands provided there are metal ions in solution.

Sodium sulfate reacts with sulfuric acid to give the acid salt sodium bisulfate, leading to a temperature-dependent equilibrium:



Sulfate ions (SO₄²⁻) in solution can be indicated by the easy formation of insoluble sulfates when these solutions are treated with Ba²⁺ or Pb²⁺ salts:



Double salts with some other alkali metal sulfates are known, including Na₂SO₄·3K₂SO₄.

- Solubility in water is high: 4.76 g/100 mL (0 °C), 42.7 g/100 mL (100 °C).

It is soluble in glycerol and hydrogen iodide, but insoluble in ethanol.

● Safety

Although sodium sulfate is generally regarded as non-toxic, it should be handled with care. The dust can cause temporary asthma or eye irritation; this risk can be prevented by using eye protection and a paper mask. Transport is not limited.

Ordering information

Catalog size quantities and prices may be found at <http://www.interchim.com>. Please inquire for higher quantities (availability, shipment conditions).

For any information, please ask : Uptima / Interchim; Hotline : +33(0)4 70 03 73 06

Disclaimer : Materials from Uptima are sold **for research use only**, and are not intended for food, drug, household, or cosmetic uses. Uptima is not liable for any damage resulting from handling or contact with this product.

Rev.N07E