



## SODIUM BICARBONATE

### TECHNICAL GRADE

CAS №144-55-8

IUPAC NAME SODIUM HYDROGEN CARBONATE

#### Technical properties:

Parameter	Unit	Value 2nd Grade
Appearance	-	White crystalline powder or colorless crystals
Mass fraction of ammonium salts in terms of NH <sub>4</sub> <sup>+</sup> , not more than	%	0.001
Insoluble matter in water tests	Passes the tests according to GOST 2156-76	
Arsenic, As, not more than	mg/kg	3.0
Lead, Pb, not more than	mg/kg	5.0
Mercury, Hg, not more than	mg/kg	1.0
Mass fraction of Sodium Bicarbonate, NaHCO <sub>3</sub> , not less than	%	99.3
Mass fraction of Sodium Carbonate, Na <sub>2</sub> CO <sub>3</sub> , not more than	%	0.7
Mass fraction of Chlorides calculated as NaCl, not more than	%	0.04
Mass fraction of Iron (Fe), not more than	%	0.005
Mass fraction of Calcium (Ca), not more than	%	0.05
Mass fraction of Sulfates calculated as SO <sub>4</sub> <sup>2-</sup> , not more than	%	0.02
Mass fraction of moisture, not more than	%	0.2

#### Application

Chemical industry – production of dyes, foam plastics and other organic products, fluoric reagents, household chemistry, fire extinguisher fillers.

Light industry – in production of sole rubber and artificial leather, leather making (leather tanning and neutralization), textile industry (finishing silk and cotton fabrics).

Medical and pharmaceutical industry – production of medicines, biologically active supplements, hemodialysis.

About 50 % of sodium bicarbonate is used for household purposes: as leaven for home baking and confectionary products, as detergents, for medical purposes (expectorants, heartburn remedies) and many other purposes.

#### Packing

Sodium bicarbonate is packed in 25 kg polypropylene bags, four-layer 25 kg paper bags, one-time use special big bag containers (4 sling) with a maximum mass of 1-1.2 ton.

Sodium Hydrogen Carbonate is stored in the manufacturer's packaging in dry heated storage rooms on wooden shelves or pallets at a temperature of 10°C to 30°C, relative humidity of 70%.

#### Transportation

Sodium bicarbonate can be transported by all types of transport (except aviation) in covered vehicles in accordance with Goods Transport Rules applicable for this vehicle type.

#### Guaranteed shelf life

Guaranteed shelf life of sodium bicarbonate is 12 months (GOST 2156-76) from the manufacture date.

No expiry date when stored according to requirements.

#### Certification

Sodium bicarbonate is registered in accordance with requirements of EC REACH regulations, registration number 01 2119457606-32-0019.