

Identification

NaHCO₃
M = 84,01 g/mol
CAS [144-55-8]
EC number: 205-633-8
Taric code: 2836 30 00

Synonyms

Sodium bicarbonate

Applications

analytical chemistry, laboratory reagent, to make sodium salts, for laboratory glassware cleaning, source of CO₂, in fire extinguishers, in food industry (E-500), in pharma industry.

Specifications

assay (acidimetric, on dried sample).....	99,0 - 100,5 %	limit of sulfur compounds.....	max. 150 ppm
Identification sodium.....	passes test	ammonium (NH ₄).....	max. 20 ppm
Identification bicarbonates.....	passes test	aluminium (Al).....	max. 2 ppm
appearance of solution.....	clear and colourless	arsenic (As).....	max. 2 ppm
insoluble matter.....	passes test	calcium (Ca).....	max. 100 ppm
pH (5 %, H ₂ O).....	max. 8,6	copper (Cu).....	max. 1 ppm
normal carbonate.....	passes test	iron (Fe).....	max. 20 ppm
chlorides (Cl).....	max. 150 ppm	magnesium (Mg).....	max. 0,004 %
sulfates (SO ₄).....	max. 150 ppm	organic impurities max. 0,01 %	
		loss on drying (silica gel).....	max. 0,25 %

Physical data

- Appearance: crystals or powder, white
- Spec. Density: 2,22 g/cm³
- Bulk density: ~ 1000 kg/m³
- Solub. in water: (20 °C): 95,5 g/l
- Melting point: 270 °C (decomposes)
- Vapour pressure: (30 °C) 8,3 hPa
- pH(50 g/l H₂O, 20 °C) ~ 8,6

Transport/storage

- 10°C - 30°C