

Sodium hydrogen carbonate, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur

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).

Specifications

assay (acidimetric, on dried sample).....	99,7 - 100,3 %	arsenic (As).....	max. 2 ppm
identity.....	passes test	calcium (Ca).....	max. 0,01 %
appearance of solution.....	passes test	copper (Cu).....	max. 2 ppm
insoluble in water.....	max. 0,015 %	heavy metals (as Pb).....	max. 5 ppm
pH (5 %, H ₂ O).....	max. 8,6	iron (Fe).....	max. 5 ppm
chlorides (Cl).....	max. 0,002 %	lead (Pb).....	max. 5 ppm
phosphates (as PO ₄).....	max. 0,001 %	magnesium (Mg).....	max. 0,005 %
phosphates and silicates (as SiO ₂).....	max. 0,005 %	potassium (K).....	max. 0,005 %
sulfates (SO ₄).....	max. 0,015 %	zinc (Zn).....	max. 5 ppm
total nitrogen (as N).....	max. 0,0005 %	sulphur compounds (as SO ₄).....	max. 0,003 %
ammonium (NH ₄).....	max. 0,0005 %	substances reducing iodine.....	max. 0,0065 %
		loss on drying (silica gel).....	max. 0,2 %

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