

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 % | calcium (Ca)..... | max. 0,01 % |
| identity..... | passes test | copper (Cu)..... | max. 0,0002 % |
| appearance of solution..... | passes test | heavy metals (as Pb)..... | max. 0,0005 % |
| insoluble in water..... | max. 0,015 % | iron (Fe)..... | max. 0,0005 % |
| pH (5 %, H ₂ O)..... | max. 8,6 | lead (Pb)..... | max. 0,0005 % |
| chlorides (Cl)..... | max. 0,002 % | magnesium (Mg)..... | max. 0,005 % |
| phosphates (as PO ₄)..... | max. 0,001 % | potassium (K)..... | max. 0,005 % |
| phosphates and silicates (as SiO ₂)..... | max. 0,005 % | zinc (Zn)..... | max. 0,0005 % |
| sulfates (SO ₄)..... | max. 0,015 % | sulphur compounds (as SO ₄)..... | max. 0,003 % |
| total nitrogen (as N)..... | max. 0,0005 % | substances reducing iodine..... | max. 0,0065 % |
| ammonium (NH ₄)..... | max. 0,0005 % | loss on drying (silica gel)..... | max. 0,2 % |
| arsenic (As)..... | max. 0,0002 % | | |

Packaging**Packaging Code**

500 g  SO01310500
1 kg  SO01311000
5 kg  SO0131005P
25 kg  SO0131025P

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

Toxicological data

- LD 50 (oral, rat): 4220 mg/kg
- WGK: 1
- Poison class CH (Swiss): 5