

**Sodium hydrogen carbonate, EssentQ®****Identification**

NaHCO<sub>3</sub>  
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 CO<sub>2</sub>, in fire extinguishers, in food industry (E-500).

**Specifications**

assay (acidimetric).....	min. 99 %	arsenic (As).....	max. 2 ppm
pH (5 %, H <sub>2</sub> O).....	max. 8,6	calcium (Ca).....	max. 0,01 %
carbonates (CO <sub>3</sub> ).....	passes test	copper (Cu).....	max. 0,001 %
chlorides (Cl).....	max. 0,01 %	iron (Fe).....	max. 0,001 %
sulfates (SO <sub>4</sub> ).....	max. 0,01 %	lead (Pb).....	max. 5 ppm
total nitrogen (as N).....	max. 0,003 %	zinc (Zn).....	max. 0,001 %
aluminium (Al).....	max. 0,5 ppm	loss on drying (silica gel).....	max. 0,2 %

**Physical data**

- Appearance: crystals or powder, white
- Spec. Density: 2,22 g/cm<sup>3</sup>
- Bulk density: ~ 1000 kg/m<sup>3</sup>
- 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 H<sub>2</sub>O, 20 °C) ~ 8,6

**Transport/storage**

- 10°C - 30°C