SO0227
Sodium chloride, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur

Identification

NaCl
M = 58,44 g/mol
CAS [7647-14-5]
EC number: 231-598-3
Taric code: 2501 00 31

Synonyms

Salt, Common salt, Rock salt, Sea salt

Applications

analytical chemistry, laboratory reagent, to make sodium salts, in food industry, for decreasing the melting point of water.

Specifications

assay (argentometric)	min. 99,5 %
assay (argentometric, on dried sample)	99,0 - 100,5 %
identity	passes test
appearance of solution	clear and colourless
insoluble in water	max. 0,005 %
pH (5 %, H2O)	5,0 - 8,0
acidity or alkalinity	passes test
bromides (Br)	max. 0,005 %
chlorates and nitrates (as NO3)	max. 0,003 %
ferricyanide	passes test
iodides (I)	passes test
phosphates (as PO4)	max. 5 ppm
sulfates (SO_4)	max. 0,001 %
total nitrogen (as N)	max. 0,001 %
arsenic (As)	max. 0,4 ppm
barium (Ba)	passes test
calcium (Ca)	max. 0,002 %
copper (Cu)	max. 2 ppm
heavy metals	max. 5 ppm
iron (Fe)	max. 1 ppm
magnesium (Mg)	max. 0,001 %
potassium (K)	max. 0,005 %
loss on drying (105 °C, 2 h)	max. 0,5 %

Physical data

- Appearance: crystals, colourless or white
- Spec. Density: 2,17 g/cm^3
- Bulk density: ~ 1140 kg/m^3
- Solub. in water: (20 ºC): 358 g/l
- Melting point: 801 ºC
- Boiling point: 1461 ºC
- Vapour pressure: (865 ºC) 1,3 hPa
- pH(100 g/l H_2O, 20 ºC) ~ 4,5 - 7,0

Transport/storage

- 10°C - 30°C