

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 %	phosphates (as PO ₄).....	max. 5 ppm
assay (argentometric, on dried sample)	99,0 - 100,5 %	sulfates (SO ₄).....	max. 0,001 %
identity.....	passes test	total nitrogen (as N).....	max. 0,001 %
appearance of solution.....	clear and colourless	arsenic (As).....	max. 0,4 ppm
insoluble in water.....	max. 0,005 %	barium (Ba).....	passes test
pH (5 %, H ₂ O).....	5,0 - 8,0	calcium (Ca).....	max. 0,002 %
acidity or alkalinity.....	passes test	copper (Cu).....	max. 2 ppm
bromides (Br).....	max. 0,005 %	heavy metals.....	max. 5 ppm
chlorates and nitrates (as NO ₃).....	max. 0,003 %	iron (Fe).....	max. 1 ppm
ferricyanide.....	passes test	magnesium (Mg).....	max. 0,001 %
iodides (I).....	passes test	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/cm³
- Bulk density: ~ 1140 kg/m³
- Solub. in water: (20 °C): 358 g/l
- Melting point: 801 °C
- Boiling point: 1461 °C
- Vapour pressure: (865 °C) 1,3 hPa
- pH(100 g/l H₂O, 20 °C) ~ 4,5 - 7,0

Transport/storage

- 10°C - 30°C