

FT-89678A



Sodium Chloride

Product Information

Chemical name :	Sodium Chloride Syn.: NaCl, Halite, Rock salt, Saline Sodium chloric			
Cat. Number :	89678A, 1 Kg	89678B, 5 Kg	89678C, 10 Kg	89678D, Bulk
Structure :	NaCl			
Molecular Weight :	58.44 g mol ⁻¹			
CAS:	7647-14-5	EC number	231-598-3	
Properties:	Form: powder Solubility : 359 g L ⁻¹	Melting point: 801 °C (1474 °F)		Density: 2.165 g cm ⁻³
Purity :	99.8%			
Storage:	Room temperature			
Safety:	car irritate eyes, skin Hazard Codes : Xi Risk Statements : 36/37/38			
		LD50: 3000–8000 mg/kg (oral in rats, mice, rabbits) Safety Statements : 22-24/25-36-26		
Applications:	Suitable for sensitive molecular biology applications			

Technical information

● Solid NaCl dissolve only in polar solvents, because of strong interaction between Na⁺ and Cl⁻ ions. When dissolved in water, the sodium chloride framework disintegrates as the Na⁺ and Cl⁻ ions become surrounded by the polar water molecules (aquo complex [Na(H₂O)₈]⁺, with the Na-O distance of 250 pm). From cold solutions, salt crystallises as the dihydrate NaCl·2H₂O

Solutions of sodium chloride have very different properties from pure water. The freezing point is -21.12 °C for 23.31 wt% of salt, and the boiling point of saturated salt solution is near 108.7 °C.

● Solubility of NaCl in various solvents (g NaCl / 1 kg of solvent at 25 °C)^[3]

H ₂ O	360	Dimethylformamide	0.4
Formamide	94	1-Propanol	0.124
Glycerin	83	Sulfolane	0.05
Propylene glycol	71	1-Butanol	0.05
Formic acid	52	2-Propanol	0.03
Liquid ammonia	30.2	1-Pentanol	0.018
Methanol	14	Acetonitrile	0.003
Ethanol	0.65	Acetone	0.00042

Ordering information

Catalog size quantities and prices may be found at <http://www.interchim.com>.

Please inquire for higher quantities (availability, shipment conditions).

For any information, please ask : Uptima / Interchim; Hotline : +33(0)4 70 03 73 06

Disclaimer : Materials from Uptima are sold **for research use only**, and are not intended for food, drug, household, or cosmetic uses.
Uptima is not liable for any damage resulting from handling or contact with this product.

Rev.T04E-N07E