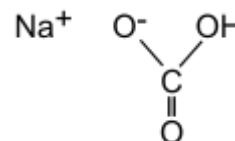




Sodium bicarbonate

Product Information

Chemical name :	Sodium bicarbonate , ACS grade Syn.: sodium hydrogeno carbonate ; Carbonic acid sodium salt; Carbonic acid monosodium salt; Natrium bicarbonicum; Natrium hydrogencarbonicum; Sodium hydrocarbonate		
Cat. Number :	700595, 500g	70059A, 1Kg	70059B, 2.5Kg
Structure :	NaHCO ₃		
Molecular Weight :	84.01		
CAS:	144-55-8	EC: 205-633-8	



Properties: Form: white solid crystalline powder
Melting point: 50°C (323 K, 122°F) ¹ Density: 2.20 g/cm³
pKa: 10.329 and 6.351(carbonic acid) Log P: -0.82
Refractive index (nD)1.3355¹
Solubility : readily soluble in water >9% w/v, clear, colorless

Storage:	Room temperature (Z)
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Safety:  **Irritant** Causes serious eye irritation.
LD50: 4.22 g/kg

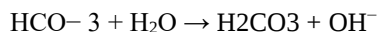
Risk Statements: 36/37/38
Safety Statements: 36/37/39

Applications: Suitable for many biochemistry and biotechnology applications.
Widely used to make buffers for purification, coating, chemical reactions, assays,....

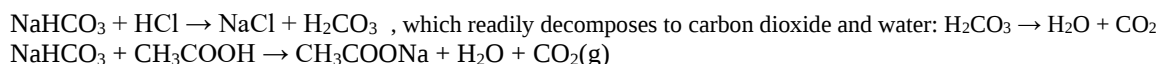
Technical information

- Chemical reactions

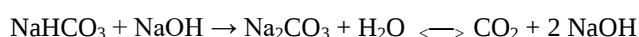
Sodium bicarbonate is an amphoteric compound, giving mildly alkaline aqueous solutions due to the formation of carbonic acid and hydroxide ion:



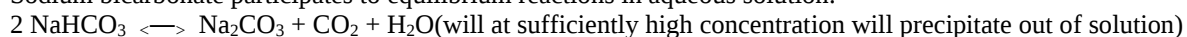
Reaction with an acid produces a salt and carbonic acid:



Reaction with bases such as sodium hydroxide forms carbonates:



Sodium bicarbonate participates in equilibrium reactions in aqueous solution:



As a result, Sodium bicarbonate has a strong buffering effect. Its pKa is pKa: 10.329 and 6.351(carbonic acid)^[1]

- Solubility in water is high: 9 g/100 mL (increase with temperature from 69 g/L (0 °C) to 96 g/L (20 °C), 165 g/L (60 °C) and 236 g/L (100 °C)^[1]. It is soluble in acetone, but insoluble in ethanol

Ordering information

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

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.

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