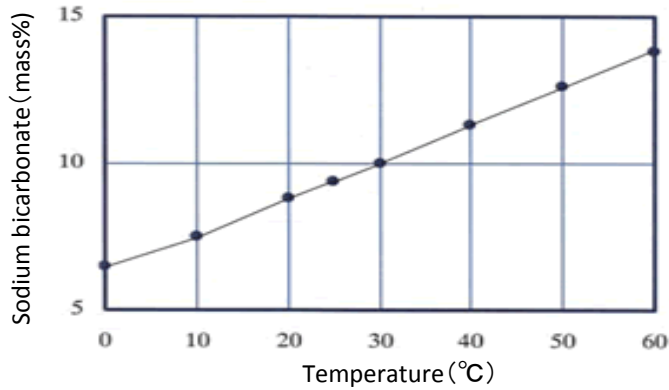


Physical Properties

Solubility of sodium bicarbonate in water



Sodium bicarbonate aqueous solution pH

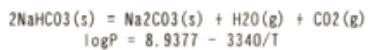
Concentration of sodium bicarbonate (g/l)	1	2	3	4	5	10	15	20	30	40
pH	8.4	8.4	8.4	8.4	8.4	8.3	8.2	8.2	8.1	8.1

Sodium bicarbonate aqueous solution pH

Item	Unit	Value
Chemical formula	-	NaHCO ₃
Molecular weight	-	84.01
Color	-	White
True specific gravity	-	2.22
Melting point	°C	270 decomposition (-CO ₂)
Solubility (water)	g/100g	6.5 (0°C) (notes) 9.4 (25°C) (notes) 13.8 (60°C) (notes)
Solubility (ethanol)	g/100g	Irreducible minimum
Heat of dissolution	kJ/mol	17.1 endothermic (water 300ml)

(Note) from Chemical handbook

Equilibrium pressure per sodium bicarbonate temperature (from International Critical Table)



Temperature (°C)	Pressure (MPa)
30.1	0.00083
50.1	0.00400
70.1	0.01605
90.1	0.05522
92.5	0.06231
100.1	0.09745
107.5	0.14690
110.1	0.16695
111.8	0.18649
115.6	0.22055

