

Technical Data

# Sodium Bicarbonate

## Industrial Grade

**Formula** NaHCO<sub>3</sub>

**Molecular Weight** 84.01

### Chemical Abstract Services

**Name** Carbonic Acid Monosodium Salt  
**Number** 144-55-8

### Particle Size Distribution

Screen Size	Cumulative % Retained	
	Minimum	Maximum
USS 100 (150 μm)	5	80
USS 200 (75 μm)	20	100
USS 325 (45 μm)	50	100

### General Properties

**Typical bulk density, lb/ft<sup>3</sup> (kg/m<sup>3</sup>)** 67 (1074)  
**Particle density, g/cm<sup>3</sup>** 2.22  
**pH of 1% solution @ 25°C (77°F)** 8.3  
**Appearance** White crystalline powder  
**Thermal decomposition** Decomposes (without melting) into Na<sub>2</sub>CO<sub>3</sub>, H<sub>2</sub>O, and CO<sub>2</sub>

### Standard Containers

50 lb (22.7 kg) bags  
One ton super sacks  
Bulk hopper cars and trucks

### Uses

Chemical processing, cleaning compounds, dry powder fire extinguishers, flue gas desulfurization, leather tanning, oil well drilling fluids, paper manufacturing, swimming pool treatment, textiles processing, water and waste water treatment.

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