

## Technical Data

# Sodium Bicarbonate

## Pharma Grade No. 5

Meets United States Pharmacopeia Specifications

<b>Formula</b>	NaHCO <sub>3</sub>
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<b>Molecular Weight</b>	84.01
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**Chemical Abstract Services**

Name	Carbonic Acid Monosodium Salt
Number	144-55-8

**Particle Size Distribution**

Screen Size	Cumulative % Retained	
	Minimum	Maximum
USS 60 (250 μm)	0	30
USS 100 (150 μm)	50	100
USS 170 (90 μm)	90	100

**General Properties**

Typical bulk density, lb/ft <sup>3</sup> (kg/m <sup>3</sup> )	66 (1058)
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>

**Specifications and Requirements**

	USP
Assay (dry basis)	99.0% - 100.5%
Insoluble substances	Meets USP requirement
Loss on drying	0.25% max
Ammonia	Meets USP requirement
Arsenic	2 ppm max
Carbonate	Meets USP requirement
Chloride (as Cl <sup>-</sup> )	150 ppm max
Sulfur Compounds	150 ppm max
Identification	Responds to USP tests for sodium and bicarbonate

<b>Standard Containers</b>	50 lb (22.7 kg) bags One ton super sacks Bulk hopper cars and trucks
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