

## Technical Data

# Sodium Bicarbonate

## Hemodialysis Grade 2

Meets United States Pharmacopeia Specifications for Use in Hemodialysis

<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

**Chemical Analysis**

	Maximum Level
Iron (as Fe)	5 ppm
Organics (as COD)	100 ppm
Carbonate (as CO <sub>3</sub> )	0.23%
Arsenic (as As)	2 ppm
Sulfur Compounds	150 ppm
Chloride (as Cl)	150 ppm
Aluminum (as Al)	2 ppm
Copper (as Cu)	1 ppm
Calcium (as Ca)	100 ppm
Magnesium (as Mg)	40 ppm
Heavy Metals	5 ppm

**Additional Analyses**
**USP Specification**

Assay	99.0% - 100.5%
Loss on drying	0.25% max
Insoluble substances	Meets USP requirements
Ammonia	Meets USP requirements
Organic volatile impurities	Meets USP requirements
Identification	Responds to USP tests for sodium and bicarbonate

**Particle Size Distribution**

Screen Size	Cumulative % Retained	
	Minimum	Maximum
USS 80 (180 μm)	0	1
USS 100 (150 μm)	0	5
USS 200 (75 μm)	70	100
USS 325 (45 μm)	90	100

**General Properties**

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>

<b>Standard Containers</b>	50 lb (22.7 kg) bags
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