Technical Data

Sodium Bicarbonate

Hemodialysis Grade 2

Meets **United States Pharmacopeia** Specifications for Use in Hemodialysis

Formula	$NaHCO_3$
Molecular Weight	84.01
Chemical Abstract Services	
Name	Carbonic Acid Monosodium Salt
Number	144-55-8

Chemical Analysis	**Maximum Level**
Iron (as Fe)	5 ppm
Limit of Organics	100 ppm
Carbonate (as CO_3)	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

Additional Analyses	**USP Specification**
Assay	99.0% - 100.5%
Loss on drying	0.25% max
Insoluble substances	Meets USP requirements
Ammonia	Meets USP requirements
Identification	Responds to USP tests for sodium and bicarbonate

Particle Size Distribution

	Cumulative % Retained	
Screen Size	**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^3	2.22
pH of 1% solution @ 25°C (77°F)	8.3
Appearance	White crystalline powder
Thermal decomposition	Decomposes (without melting) into Na_2CO_3, H_2O, and CO_2
Standard Containers	50 lb (22.7 kg) bags

WE Soda
V4.1 04/2025

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