Technical Data

Sodium Bicarbonate

Hemodialysis Grade

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
Organics (as COD)	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
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	Granulated to meet customer requirements

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

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