

Technical Data

Sodium Bicarbonate

Hemodialysis Coarse Grade

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

Formula	NaHCO ₃
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Molecular Weight	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 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

Screen Size	Cumulative % Retained Typical Value
USS 60 (250 μm)	3
USS 100 (150 μm)	55
USS 170 (90 μm)	97

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 ₂ CO ₃ , H ₂ O, and CO ₂

Standard Containers	50 lb (22.7 kg) bags
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