

Technical Data

Sodium Bicarbonate

Pharma Grade No. 2

 Meets **United States Pharmacopeia** Specifications

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

Particle Size Distribution

Screen Size	Cumulative % Retained	
	Minimum	Maximum
USS 80 (180 μm)	0	1
USS 100 (150 μm)	0	2
USS 200 (75 μm)	70	100
USS 325 (45 μm)	90	100

General Properties

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

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 ⁻)	150 ppm max
Sulfur Compounds	150 ppm max
Identification	Responds to USP tests for sodium and bicarbonate

Standard Containers

50 lb (22.7 kg) bags
One ton super sacks

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