Technical Data

Sodium Bicarbonate

USP Fine Granular No. 2

Meets **United States Pharmacopeia** and **Food Chemicals Codex** Specifications
Not Intended for Active Pharmaceutical Ingredient (API) Use

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

Particle Size Distribution

	Cumulative % Retained	
Screen Size	**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_2CO_3, H_2O, and CO_2

Specifications and Requirements

	USP	**FCC**
Assay (dry basis)	99.0% - 100.5%	99% minimum
Insoluble substances	Meets USP requirement	Passes FCC test
Loss on drying	0.25% max	0.25% max
Ammonia	Meets USP requirement	Passes FCC test
Arsenic	2 ppm max	3 ppm max (as As)
Heavy metals	No USP requirement	5 ppm max (as Pb)
Carbonate	Meets USP requirement	No FCC requirement
Chloride (as Cl^-)	150 ppm max	No FCC requirement
Sulfur Compounds	150 ppm max	No FCC requirement
Identification	Responds to USP tests for sodium and bicarbonate	Positive in FCC tests for sodium and bicarbonate

Standard Containers	50 lb (22.7 kg) bags One ton super sacks Bulk hopper cars and trucks

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