

## Technical Data

# Sodium Bicarbonate

## USP Coarse Granular No. 5

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

<b>Formula</b>	NaHCO <sub>3</sub>	
<b>Molecular Weight</b>	84.01	
<b>Chemical Abstract Services</b>		
Name	Carbonic Acid Monosodium Salt	
Number	144-55-8	
<b>Particle Size Distribution</b>		
	<b>Cumulative % Retained</b>	
<b>Screen Size</b>	<b>Minimum</b>	<b>Maximum</b>
USS 60 (250 µm)	0	30
USS 100 (150 µm)	50	100
USS 170 (90 µm)	90	100
<b>General Properties</b>		
Typical bulk density, lb/ft <sup>3</sup> (kg/m <sup>3</sup> )	66 (1058)	
Particle density, g/cm <sup>3</sup>	2.22	
pH of 1% solution @ 25°C (77°F)	8.3	
Appearance	White crystalline powder	
Thermal decomposition	Decomposes (without melting) into Na <sub>2</sub> CO <sub>3</sub> , H <sub>2</sub> O, and CO <sub>2</sub>	
<b>Specifications and Requirements</b>	<b>USP</b>	<b>FCC</b>
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 <sup>-</sup> )	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
<b>Standard Containers</b>	50 lb (22.7 kg) bags One ton super sacks Bulk hopper cars and trucks	

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