

Technical Data

Sodium BicarbonateUSP Fine Granular No. 2

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

Formula	NaHCO₃	
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
	0	1
USS 80 (180 μm) USS 100 (150 μm)	0	2
` ',	70	100
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USS 325 (45 μm)	90	100
General Properties		
Typical bulk density, lb/ft³ (kg/m³)	66 (1058)	
Typical bulk density, lb/ft³ (kg/m³) Particle density, g/cm³	66 (1058) 2.22	
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Particle density, g/cm ³	2.22	
Particle density, g/cm ³ pH of 1% solution @ 25°C (77°F)	2.22 8.3) into Na ₂ CO ₃ , H ₂ O, and CC
Particle density, g/cm ³ pH of 1% solution @ 25°C (77°F) Appearance	2.22 8.3 White crystalline powder) into Na ₂ CO ₃ , H ₂ O, and CC
Particle density, g/cm³ pH of 1% solution @ 25°C (77°F) Appearance Thermal decomposition	2.22 8.3 White crystalline powder	into Na ₂ CO ₃ , H ₂ O, and CO
Particle density, g/cm³ pH of 1% solution @ 25°C (77°F) Appearance Thermal decomposition Specifications and Requirements	2.22 8.3 White crystalline powder Decomposes (without melting)	
Particle density, g/cm³ pH of 1% solution @ 25°C (77°F) Appearance Thermal decomposition	2.22 8.3 White crystalline powder Decomposes (without melting)	FCC
Particle density, g/cm³ pH of 1% solution @ 25°C (77°F) Appearance Thermal decomposition Specifications and Requirements Assay (dry basis)	2.22 8.3 White crystalline powder Decomposes (without melting) USP 99.0% - 100.5%	FCC 99% minimum
Particle density, g/cm³ pH of 1% solution @ 25°C (77°F) Appearance Thermal decomposition Specifications and Requirements Assay (dry basis) Insoluble substances	2.22 8.3 White crystalline powder Decomposes (without melting) USP 99.0% - 100.5% Meets USP requirement	FCC 99% minimum Passes FCC test
Particle density, g/cm³ pH of 1% solution @ 25°C (77°F) Appearance Thermal decomposition Specifications and Requirements Assay (dry basis) Insoluble substances Loss on drying	2.22 8.3 White crystalline powder Decomposes (without melting) USP 99.0% - 100.5% Meets USP requirement 0.25% max	FCC 99% minimum Passes FCC test 0.25% max
Particle density, g/cm³ pH of 1% solution @ 25°C (77°F) Appearance Thermal decomposition Specifications and Requirements Assay (dry basis) Insoluble substances Loss on drying Ammonia	2.22 8.3 White crystalline powder Decomposes (without melting) USP 99.0% - 100.5% Meets USP requirement 0.25% max Meets USP requirement 2 ppm max No USP requirement	FCC 99% minimum Passes FCC test 0.25% max Passes FCC test 3 ppm max (as As) 5 ppm max (as Pb)
Particle density, g/cm³ pH of 1% solution @ 25°C (77°F) Appearance Thermal decomposition Specifications and Requirements Assay (dry basis) Insoluble substances Loss on drying Ammonia Arsenic Heavy metals Carbonate	2.22 8.3 White crystalline powder Decomposes (without melting) USP 99.0% - 100.5% Meets USP requirement 0.25% max Meets USP requirement 2 ppm max No USP requirement Meets USP requirement	FCC 99% minimum Passes FCC test 0.25% max Passes FCC test 3 ppm max (as As) 5 ppm max (as Pb) No FCC requirement
Particle density, g/cm³ pH of 1% solution @ 25°C (77°F) Appearance Thermal decomposition Specifications and Requirements Assay (dry basis) Insoluble substances Loss on drying Ammonia Arsenic Heavy metals Carbonate Chloride (as Cl-)	2.22 8.3 White crystalline powder Decomposes (without melting) USP 99.0% - 100.5% Meets USP requirement 0.25% max Meets USP requirement 2 ppm max No USP requirement Meets USP requirement 150 ppm max	FCC 99% minimum Passes FCC test 0.25% max Passes FCC test 3 ppm max (as As) 5 ppm max (as Pb) No FCC requirement No FCC requirement
Particle density, g/cm³ pH of 1% solution @ 25°C (77°F) Appearance Thermal decomposition Specifications and Requirements Assay (dry basis) Insoluble substances Loss on drying Ammonia Arsenic Heavy metals Carbonate Chloride (as Cl¹) Sulfur Compounds	2.22 8.3 White crystalline powder Decomposes (without melting) USP 99.0% - 100.5% Meets USP requirement 0.25% max Meets USP requirement 2 ppm max No USP requirement Meets USP requirement 150 ppm max 150 ppm max	FCC 99% minimum Passes FCC test 0.25% max Passes FCC test 3 ppm max (as As) 5 ppm max (as Pb) No FCC requirement No FCC requirement No FCC requirement
Particle density, g/cm³ pH of 1% solution @ 25°C (77°F) Appearance Thermal decomposition Specifications and Requirements Assay (dry basis) Insoluble substances Loss on drying Ammonia Arsenic Heavy metals Carbonate Chloride (as Cl-)	2.22 8.3 White crystalline powder Decomposes (without melting) USP 99.0% - 100.5% Meets USP requirement 0.25% max Meets USP requirement 2 ppm max No USP requirement Meets USP requirement 150 ppm max	FCC 99% minimum Passes FCC test 0.25% max Passes FCC test 3 ppm max (as As) 5 ppm max (as Pb) No FCC requirement No FCC requirement
Particle density, g/cm³ pH of 1% solution @ 25°C (77°F) Appearance Thermal decomposition Specifications and Requirements Assay (dry basis) Insoluble substances Loss on drying Ammonia Arsenic Heavy metals Carbonate Chloride (as Cl¹) Sulfur Compounds	2.22 8.3 White crystalline powder Decomposes (without melting) USP 99.0% - 100.5% Meets USP requirement 0.25% max Meets USP requirement 2 ppm max No USP requirement Meets USP requirement 150 ppm max 150 ppm max Responds to USP tests	FCC 99% minimum Passes FCC test 0.25% max Passes FCC test 3 ppm max (as As) 5 ppm max (as Pb) No FCC requirement No FCC requirement No FCC requirement Positive in FCC tests for
Particle density, g/cm³ pH of 1% solution @ 25°C (77°F) Appearance Thermal decomposition Specifications and Requirements Assay (dry basis) Insoluble substances Loss on drying Ammonia Arsenic Heavy metals Carbonate Chloride (as Cl¹) Sulfur Compounds Identification	2.22 8.3 White crystalline powder Decomposes (without melting) USP 99.0% - 100.5% Meets USP requirement 0.25% max Meets USP requirement 2 ppm max No USP requirement Meets USP requirement 150 ppm max 150 ppm max Responds to USP tests for sodium and bicarbonate	FCC 99% minimum Passes FCC test 0.25% max Passes FCC test 3 ppm max (as As) 5 ppm max (as Pb) No FCC requirement No FCC requirement No FCC requirement Positive in FCC tests for

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