

Technical Data

Sodium Bicarbonate

No. 1 Treated Free Flowing

With Tricalcium Phosphate (Food Grade) added

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 100 (150 μm)	0	2
USS 200 (75 μm)	20	45
USS 325 (45 μm)	60	100

General Properties

Typical bulk density, lb/ft ³ (kg/m ³)	67 (1073)
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

General Chemical Properties

Assay (dry basis)	99.0% - 100.5%
Loss on drying	0.25% max
Ammonia	Passes FCC test
Arsenic	3 ppm max (as As)
Heavy metals	5 ppm max (as Pb)
Identification	Positive in FCC tests for sodium and bicarbonate
Quality	Individually the components, Sodium Bicarbonate and Tricalcium Phosphate, meet the FCC requirements.

Food Grade Specifications

Standard Containers

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

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