

Technical Data

Sodium Bicarbonate

Coarse Granular No. 5 Treated Free Flowing

With Tricalcium Phosphate (Food Grade) added

Formula NaHCO₃

Molecular Weight 84.01

Chemical Abstract Services

Name Carbonic Acid Monosodium Salt
 Number 144-55-8

Particle Size Distribution – Typical Values

Screen Size	Cumulative % Retained	
	Minimum	Maximum
USS 60 (250 μm)	0	30
USS 100 (150 μm)	50	100
USS 170 (90 μm)	90	100

General Properties

Typical bulk density, lb/ft³ (kg/m³) 66 (1058)
 Particle density, g/cm³ 2.22
 pH of 1% solution @ 25°C (77°F) 8.3
 Appearance White crystalline powder
 Thermal decomposition Decomposes (without melting) into Na₂CO₃, H₂O, and CO₂

General Chemical Properties

	Food Grade Specifications
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	Meets FCC requirements except for presence of Tricalcium Phosphate as a flow aid

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

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