
Technical Data

Sodium Bicarbonate

No. 1 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

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/ft³ (kg/m³) 67 (1073)
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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