Technical Data

# Sodium Bicarbonate

## No. 1 Treated Free Flowing

With Tricalcium Phosphate (Food Grade) added

| | |
|---|---|
| **Formula** | $NaHCO_3$ |
| **Molecular Weight** | 84.01 |
| **Chemical Abstract Services** | |
| Name | Carbonic Acid Monosodium Salt |
| Number | 144-55-8 |

**Particle Size Distribution**

| | Cumulative % Retained | |
|---|---|---|
| | **Minimum** | **Maximum** |
| **Screen Size** | | |
| 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 $Na_2CO_3$, $H_2O$, and $CO_2$ |

| **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 | Individually the components, Sodium Bicarbonate and Tricalcium Phosphate, meet the FCC requirements. |

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



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V4.1 07/2019