

Technical Data

Sodium Bicarbonate

Pharma Grade No. 2

 Meets **United States Pharmacopeia** and **Food Chemicals Codex** Specifications

| | |
|----------------|--------------------|
| Formula | NaHCO ₃ |
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|-------------------------|-------|
| Molecular Weight | 84.01 |
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Chemical Abstract Services

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| Name | Carbonic Acid Monosodium Salt |
| Number | 144-55-8 |

Particle Size Distribution

| Screen Size | Cumulative % Retained | |
|------------------|-----------------------|---------|
| | Minimum | Maximum |
| USS 80 (180 μm) | 0 | 1 |
| USS 100 (150 μm) | 0 | 2 |
| USS 200 (75 μm) | 70 | 100 |
| USS 325 (45 μm) | 90 | 100 |

General Properties

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|---|---|
| Typical bulk density, lb/ft ³ (kg/m ³) | 66 (1058) |
| 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 |

Specifications and Requirements

| | USP | FCC |
|--------------------------------|--|--|
| Assay (dry basis) | 99.0% - 100.5% | 99% minimum |
| Insoluble substances | Meets USP requirement | Passes FCC test |
| Loss on drying | 0.25% max | 0.25% max |
| Ammonia | Meets USP requirement | Passes FCC test |
| Arsenic | 2 ppm max | 3 ppm max (as As) |
| Heavy metals | 5 ppm max | 5 ppm max (as Pb) |
| Carbonate | Meets USP requirement | No FCC requirement |
| Chloride (as Cl ⁻) | 150 ppm max | No FCC requirement |
| Sulfur Compounds | 150 ppm max | No FCC requirement |
| Organic volatile impurities | Meets USP requirement | No FCC requirement |
| Identification | Responds to USP tests for sodium and bicarbonate | Positive in FCC tests for sodium and bicarbonate |

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|----------------------------|---|
| Standard Containers | 50 lb (22.7 kg) bags One ton super sacks |
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