

Technical Data

Sodium Bicarbonate

Pharma Grade No. 5

 Meets **United States Pharmacopeia** Specifications

| | |
|----------------|--------------------|
| Formula | NaHCO ₃ |
|----------------|--------------------|

| | |
|-------------------------|-------|
| 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 60 (250 μm) | 0 | 30 |
| USS 100 (150 μm) | 50 | 100 |
| USS 170 (90 μm) | 90 | 100 |

General Properties

| | |
|---|---|
| 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 |
|--------------------------------|--|
| Assay (dry basis) | 99.0% - 100.5% |
| Insoluble substances | Meets USP requirement |
| Loss on drying | 0.25% max |
| Ammonia | Meets USP requirement |
| Arsenic | 2 ppm max |
| Carbonate | Meets USP requirement |
| Chloride (as Cl ⁻) | 150 ppm max |
| Sulfur Compounds | 150 ppm max |
| Identification | Responds to USP tests for sodium and bicarbonate |

Standard Containers

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

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