

Technical Data

Sodium Bicarbonate

Hemodialysis Grade 2

Meets United States Pharmacopeia Specifications for Use in Hemodialysis

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

| | |
|-------------------------|-------|
| Molecular Weight | 84.01 |
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Chemical Abstract Services

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

Chemical Analysis

| | Maximum Level |
|---------------------------------|---------------|
| Iron (as Fe) | 5 ppm |
| Limit of Organics | 100 ppm |
| Carbonate (as CO ₃) | 0.23% |
| Arsenic (as As) | 2 ppm |
| Sulfur Compounds | 150 ppm |
| Chloride (as Cl) | 150 ppm |
| Aluminum (as Al) | 2 ppm |
| Copper (as Cu) | 1 ppm |
| Calcium (as Ca) | 100 ppm |
| Magnesium (as Mg) | 40 ppm |

Additional Analyses
USP Specification

| | |
|----------------------|--|
| Assay | 99.0% - 100.5% |
| Loss on drying | 0.25% max |
| Insoluble substances | Meets USP requirements |
| Ammonia | Meets USP requirements |
| Identification | Responds to USP tests for sodium and bicarbonate |

Particle Size Distribution

| Screen Size | Cumulative % Retained | |
|------------------|-----------------------|---------|
| | Minimum | Maximum |
| USS 80 (180 μm) | 0 | 1 |
| USS 100 (150 μm) | 0 | 5 |
| USS 200 (75 μm) | 70 | 100 |
| USS 325 (45 μm) | 90 | 100 |

General Properties

| | |
|-------------------------------------|---|
| 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 |

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|----------------------------|----------------------|
| Standard Containers | 50 lb (22.7 kg) bags |
|----------------------------|----------------------|

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