

TECHNICAL SPECIFICATION



BARIUM NITRATE

1. Basic Information

Product Name	Barium Nitrate
Structural Formula	
Molecular Formula	BaN ₂ O ₆
Formula Weight	261.336 g/mol
CAS No.	10022-31-8
Description	Barium Nitrate exists as white powder at room temperature. It is water soluble salt.
Applications	<ol style="list-style-type: none">1. It is used by the pyrotechnic industry for the production of "green fire" and green signal flares.2. It also has uses in the vacuum tube industry.3. Barium Nitrate is used to manufacture other barium compounds.
Packaging	25 Kgs / 0 Kgs / 1MT bags with liner

2. Specifications

Items	Specification
Appearance (colour)	White
Appearance (form)	Powder or crystals
X-Ray Diffraction	Conforms to structure
Matter insoluble in water (Total)	0.5% max
Matter insoluble in water (Organic)	0.08% max
Chlorides as NaCl	0.1% max
pH water extract	6-7
At 25 C (c=5%, water)	
Calcium (Ca)	≤ 0.05
Iron (Fe)	≤2 ppm
Heavy Metals	≤ 5 ppm
By ICP-OES	
Strontium (Sr)	≤ 0.1%
Potassium (K)	≤ 0.005%
Sodium (Na)	≤ 0.005%

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Items	Specification
Complexometric EDTA	≥ 99.0%
Meets ACS Requirements	Current ACS Specification
Barium Nitrate Content	99.0% min
Hygroscopicity	0.3% min
Moisture at 105 deg C	0.85% max
Grit retained on 125 micrometer in sieve	<0.04% max
Chlorates	Nil
Nitrites as Sodium Nitrite	Nil
Sodium Comp. as Sodium Nitrate	0.01 max
Ammonium Comp. as Amm. Nitrate	0.03% max
Calcium Comp. as Calcium Nitrate	0.03% max
Total impurities excluding Sodium Salt calculated as Sodium Nitrate	0.39 max

3. Additional Information

N/A