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Certificate of Analysis

Catalogue Number	01220
Lot Number	000331-34926
Product	Barium chloride dihydrate

Barium chloride 2H₂O

CAS Number	10326-27-9
Molecular Formula	BaCl ₂ •2H ₂ O
Molecular Weight	244.3

Appearance	White crystalline powder
Solubility	36 g in 100 mL water at 20 °C
Melting Point	960 °C (Approx.) (anhydrous)
Heavy Metals	3 ppm (as Pb)
Cation	Calcium (Ca): < 0.01% Iron (Fe): 1 ppm Strontium (Sr): 0.001% Sodium (Na): 0.0035% Potassium (K): 0.0005%

pH	5.87 (5% at 25 °C)
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Oxidizable Substances	< 0.005%
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Loss on Drying	14.4% (at 150 °C)
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Insoluble material	< 0.002%
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Assay by titration	99.6%
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Grade	ACS reagent
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Application	It is used to test the sulphate ions. Industrially, Barium Chloride is used in the purification of brine solution in caustic chlorine plants and also in the manufacture of heat treatment salts, case hardening of steel, manufacture of pigments and in the manufacture of other Barium Salts. Above all, Barium Chloride is widely used in fireworks to impart them a bright green color.
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Storage	Store at RT
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Remarks

See material safety data sheet for additional information

For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



Bala Kumar
Quality Control Manager