

**Barium chloride dihydrate, for analysis, ExpertQ®, ACS, ISO, Reag.  
Ph Eur****Identification**

BaCl<sub>2</sub>·2H<sub>2</sub>O  
M = 244,28 g/mol  
CAS [10326-27-9]  
EC number: 233-788-1  
Taric code: 2827 39 85

**Applications**

analytical chemistry, for determination of: sulfates.

**Specifications**

assay (complexometric).....	min. 99,0 %	heavy metals.....	max. 5 ppm
identity ( IR-spectrum).....	passes test	iron (Fe).....	max. 1 ppm
insoluble in water.....	max. 0,005 %	lead (Pb).....	max. 0,001 %
pH (5 %, H <sub>2</sub> O).....	5,2 - 8,0	potassium (K).....	max. 0,0025 %
total nitrogen (as N).....	max. 0,002 %	sodium (Na).....	max. 0,005 %
oxidizing substances (as NO <sub>3</sub> ).....	max. 0,005 %	strontium (Sr).....	max. 0,05 %
calcium (Ca).....	max. 0,005 %	loss on drying (150 °C).....	14,0 - 16,0 %

**Physical data**

- Bulk density: ~ 1200 - 1400 kg/m<sup>3</sup>
- Solub. in water: (20 °C): 357 g/l
- Melting point: 962 °C (release of crystalline water)
- pH(50 g/l H<sub>2</sub>O, 20 °C) ~ 5,2 - 8,2

**Safety - GHS**

**Signal Word:** Danger

**Hazard Statements:**

- H301: Toxic if swallowed.  
H332: Harmful if inhaled.

**Precautionary Statements:**

- P261: Avoid breathing dust / fume / gas / mist / vapours / spray.  
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P321: Specific treatment (see on this label).  
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P405: Store locked up.  
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

**Transport/storage**

- ADR: 6.1 T5 III • UN 1564 • BARIUM COMPOUND, N.O.S.(Barium chloride dihydrate)
- IMDG: 6.1 III • UN 1564 • BARIUM COMPOUND, N.O.S.(Barium chloride dihydrate)
- IATA/ICAO: 6.1 III • UN 1564 • BARIUM COMPOUND, N.O.S.(Barium chloride dihydrate)
- PAX: 619
- CAO: 619
- 10°C - 30°C