



Technical Data Sheet (TDS)

Calcium Bromide

Product Information

Parameter	Details
Product Name	Calcium Bromide
Chemical Name	Calcium Bromide
Chemical Formula	CaBr ₂
CAS Number	7789-41-5
Molecular Weight	199.89 g/mol
EC Number	232-164-6
HS Code	2827.59 (Verify according to destination country)
Appearance	White crystalline powder or clear, colorless to pale yellow solution
Chemical Family	Bromide Salt

Typical Specifications

Calcium Bromide Powder

Property	Typical Value
Appearance	White crystalline powder
Assay (CaBr ₂)	≥ 98.0%
Calcium (Ca)	Typical
Bromide (Br ⁻)	Typical
Chloride (Cl ⁻)	≤ 0.5%
Sulfate (SO ₄ ²⁻)	≤ 0.05%
Iron (Fe)	≤ 10 ppm
Heavy Metals	≤ 10 ppm
Moisture	≤ 1.0%
Solubility	Completely soluble in water



Calcium Bromide Solution

Property	Typical Value
Appearance	Clear, colorless to pale yellow liquid
Calcium Bromide Concentration	52% (Typical)
Density @ 20°C	Approximately 1.70 g/cm ³ *
pH (Typical)	6.0–8.0
Water Solubility	Completely miscible
Crystallization Point	Depends on concentration

*Density varies with concentration.

Applications

Calcium Bromide is widely used in:

- Oil and gas drilling fluids
- Completion fluids
- Workover fluids
- Clear brine fluids
- Heavy brine systems
- Oilfield chemicals
- Industrial chemical processing
- Specialty chemical manufacturing
- Bromide salt formulations

Packaging

Available packaging options include:

- 25 kg bags (Powder)
- 500 kg Jumbo Bags
- 1,000 kg Bulk Bags
- 200 L HDPE Drums
- 1,000 L IBC Totes



- Bulk Tanker Supply

Customized packaging is available upon request.

Storage

- Store in a cool, dry, and well-ventilated area.
- Keep containers tightly sealed.
- Protect powder from moisture.
- Avoid direct sunlight and excessive heat.
- Store away from incompatible materials.

Handling

- Wear suitable personal protective equipment (PPE).
- Avoid inhaling dust from the powder.
- Prevent contact with eyes and prolonged skin exposure.
- Wash thoroughly after handling.
- Refer to the Safety Data Sheet (SDS) before use.

Shelf Life

When stored in the original unopened container under recommended conditions, the product typically has a shelf life of **24 months** from the date of manufacture.

Regulatory Information

- CAS Number: **7789-41-5**
- Chemical Formula: **CaBr₂**
- Product supplied for industrial use.
- Refer to the latest SDS for health, safety, transportation, and environmental information.



Disclaimer

The information provided in this Technical Data Sheet is offered in good faith and is believed to be accurate at the time of publication. The values shown are typical and should not be regarded as product specifications. Customers should verify product suitability for their intended application and consult the latest Certificate of Analysis (COA), Technical Data Sheet (TDS), and Safety Data Sheet (SDS) before use.