



Calcium Bromide

CAS No.: 7789-41-5 (Liquid), 22208-73-7 (Solid)
Molecular Formula: CaBr_2 (Liquid), $\text{CaBr}_2 \cdot 2\text{H}_2\text{O}$ (Solid)

Calcium Bromide is available in both solid form (powder or flake) and as a concentrated liquid brine. It is widely used in the oilfield sector as a high-density brine for well completion and workover fluids, as well as in specialty applications requiring a stable and efficient weighting agent.

KEY FEATURES

- Available as solid (powder/flake) and liquid brine
- High density liquid ($\geq 1.7 \text{ g/cm}^3$ at 20°C)
- Excellent solubility and stability in brine systems
- Low impurity profile (chloride, sulphate, heavy metals)
- Reliable quality suitable for demanding oilfield applications

APPLICATIONS

- Weighting agent for brine-based drilling and completion fluids
- Mercury emission control oxidizer
- Flame retardants and specialty chemicals
- Dehydrating agent in industrial processes
- Road stabilisation and dust suppression

TYPICAL SPECIFICATIONS

Property	Solid (Powder/Flake)	Liquid (Brine)
Appearance	White powder or flake	Colourless to pale yellow transparent liquid
Main Content	$\geq 96.0 \%$	$\geq 52.0 \%$
Chloride	$\leq 1.0 \%$	$\leq 0.5 \%$
Sulphate	$\leq 0.02 \%$	$\leq 0.01 \%$
pH (5% Solution)	6.5 – 9.5	6.0 – 8.0
Bromate	No reaction	No reaction
Heavy Metals (as Pb)	$\leq 5 \text{ ppm}$	$\leq 5 \text{ ppm}$
Water Insoluble	$\leq 1.0 \%$	$\leq 0.3 \%$
Density (20°C)	–	$\geq 1.7 \text{ g/cm}^3$

(Values are typical and not intended as guaranteed specifications.)





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This document is subject to revision without notice as new data becomes available.

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PACKAGING

- Solid: 25 kg PE/PP bags or 1000 kg bulk bags; 25 MT per 20' container
- Liquid: 340 kg / 200 L drums or 1.7 MT IBCs; 24.5 – 25.5 MT per 20' container

STORAGE & SHELF LIFE

- Store in a cool, dry, well-ventilated area.
- Keep containers tightly sealed when not in use.
- Protect from moisture, direct sunlight, and incompatible materials.

SAFETY

- Avoid direct contact with skin and eyes.
- Use appropriate personal protective equipment (PPE) when handling.
- Refer to the Safety Data Sheet (SDS) for detailed safety guidelines, first aid measures, and exposure controls.