



Zinc Bromide (Liquid)

CAS No.: 7699-45-8

Formula: ZnBr_2

DESCRIPTION

Zinc bromide liquid is a high-density, transparent inorganic brine solution widely used in oil and gas operations. With densities above 2.3 g/cm^3 , it is suited for completion and workover fluids requiring clear, solids-free, high-density brines. It is manufactured under tight impurity control to minimize chlorides, sulfates, and insoluble matter, ensuring stability and performance in sensitive field operations.

KEY FEATURES

- High-density brine solution ($\geq 2.3 \text{ g/cm}^3$)
- Clear, low-turbidity liquid with excellent filtration properties
- Very low chloride and sulfate impurities
- Optimized pH range for stability and equipment compatibility

APPLICATIONS

- Oil & gas: completion/workover fluids, packer fluids, clear brines
- Metal surface treatment and electroplating baths
- Catalyst carrier solution in specialty synthesis
- Utility solution in fine chemicals and coatings

TYPICAL SPECIFICATIONS

Parameter	Specification
Appearance	Light yellow transparent liquid
Main Content (ZnBr_2)	$\geq 70.0\%$
Chloride (as Cl^-)	$\leq 0.5\%$
Sulfate (as SO_4^{2-})	$\leq 0.01\%$
pH	2 – 5
Bromate	No reaction
Lead (Pb)	$\leq 100 \text{ ppm}$
Water-insolubles	$\leq 0.3\%$
Density @ 20°C	$\geq 2.3 \text{ g/cm}^3$



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

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PACKAGING

- 460 kg steel drums (~25.76 MT/20' GP container)
- IBCs or isotanks available upon request

SHELF LIFE

12 months from production date when stored as directed. Re-test recommended if beyond shelf life.

STORAGE

Store in sealed drums/IBCs in cool, dry, well-ventilated conditions. Protect against contamination, moisture ingress, and direct exposure to incompatible materials.

SAFETY & HANDLING

Use PPE including gloves, goggles, and protective clothing. Avoid inhalation of mists and contact with skin/eyes. Ensure spill containment and proper disposal. Refer to SDS for full safety guidance.