

Description

Mercury Control Calcium Bromide is an aqueous solution of calcium bromide salt.

Applications

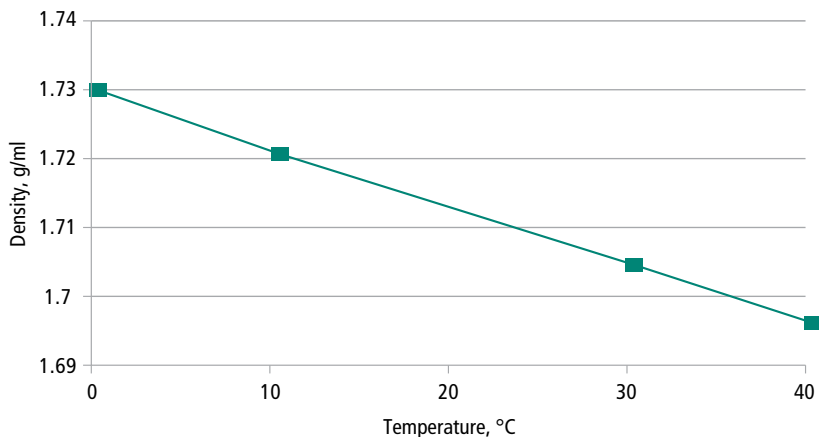
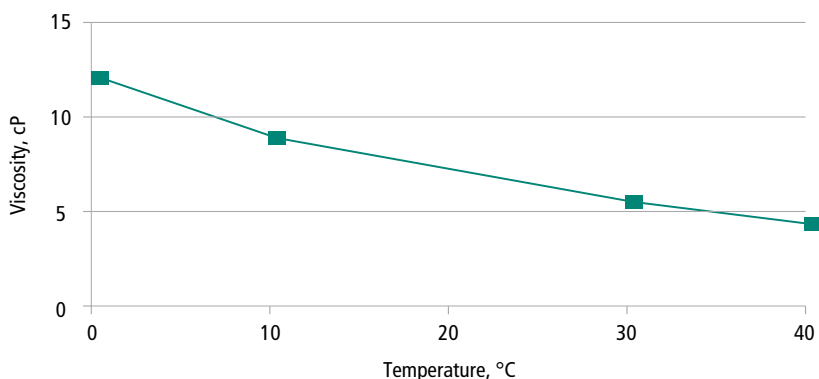
Mercury Control Calcium Bromide can be used to enhance the oxidation of the elemental mercury that is present in flue gas environments at power generation units and incinerators. Oxidized mercury is more readily removable via conventional pollution control processes and equipment.

Specifications

Assay as CaBr ₂ , wt%	>51.5
Density, lb/gal, 70°F (21°C)	>14.2

Typical properties

Appearance	Clear liquid; light to water-white color
Boiling point, °F (°C)	~261(127)
Flash point	None
Odor	Slight
Density, g/ml, 70°F (21°C)	≥1.7
Crystallization temperature (LCTD), °F (°C)	~14 (-10)



Compatibility

Materials of construction: This product is compatible with most non-metallic materials of construction, including fiber-glass-reinforced plastic (vinyl ester and polyester FRP), polyvinyl chloride (PVC), chlorinated polyvinyl chloride (CPVC), high-density polyethylene, polypropylene, Vitor[®], Teflon[®], natural rubber, chlorobutyl rubber, Hypalon[®], Halar[®] ethylene chlorotrifluoroethylene, Tefzel[®] ethylene/tetrafluoroethylene copolymer and most high-performance polytetrafluoroethylene-based gasket materials such as W.L. Gore GORE-TEX[®] and UPG Style 800, and Garlock Gylon[®] styles 3504 and 3500.

Titanium and high-nickel alloys such as Incone[®] 625 and 686, and Hastelloy[®] C-22 and C276 are also suitably compatible.

Incompatible materials of construction: The compatibility of this product with common metals depends on storage conditions and the environment the material is in. Aluminum, brass, carbon steel, copper, stainless steel and other common metals are generally not suitable for use. Carbon steel and copper can result in discoloration of the product. Aluminum suffers pitting attack. Dissolved oxygen increases the corrosion rate of stainless steel.

Recommended materials of construction for storage tanks: Vinyl ester FRP such as Ashland Derakane[®] 411 and 470, and bisphenol A fumarate polyester FRP such as Reichhold Atlac[®] 6694 are suitable for use.

Recommended materials of construction for piping and valves: For piping, an adhesive socket FRP system such as the Reinforced Plastics Systems P150 series or the Smith Fibercast[®] CL-2030 series is suitable. A flat-faced FRP ball valve such as the Nil-Cor[®] 310 series is a good choice for FRP piping. Polypropylene-lined steel also is suitable. For low-pressure lines (<5 psig) such as overflows and drains, solid PVC or CPVC piping can be used, but should be safeguarded from mechanical damage.

Shipping information

Container sizes:

Available in tank trailers and totes

Shipping classification:

Not regulated for transportation

Safety and handling information

For specific safety and handling information, please refer to the current material safety data sheet on this product.

Chemical registration numbers

CAS: 7789-41-5
EINECS: 232-164-6
MITI: 1-1038

The information presented herein is believed to be accurate and reliable, but is presented without guarantee or responsibility on the part of Albemarle Corporation and its subsidiaries. It is the responsibility of the user to comply with all the applicable laws and regulators, and to provide a safe workplace. The user should consider any health or safety hazards or information contained only as a guide, and should take those precautions that are necessary or prudent to instruct employees and to develop work practice procedures in order to promote a safe work environment. Further, nothing contained herein shall be taken as an inducement or recommendation to manufacture or use any of the herein materials or processes in violation of existing or future patent.



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