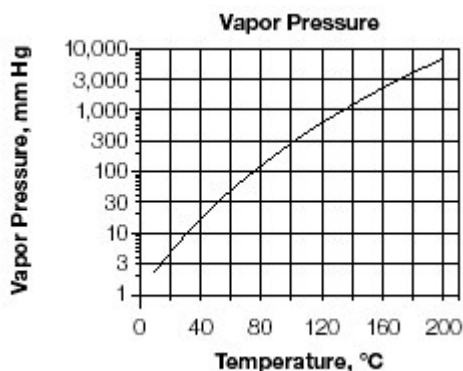


Description Hydrobromic acid-H 48% solution is a heavy, corrosive liquid with a sharp, pungent odor and a color ranging from colorless to pale yellow. This product contains a trace amount of hydrazine (10 ppm maximum) to improve its color stability.

Applications Synthesis of alkyl bromides from alcohols
 Hydrobromination of olefins
 Catalyst in oxidation of aliphatic and alicyclic hydrocarbons to ketones, peroxides and acids such as terephthalic acid
 Synthesis of inorganic bromides
 Metal cleaning compounds - soldering fluxes

Specifications Hydrogen Bromide, % wt 48.0 ±1.0
 Free bromine, ppm ≤ 75
 Specific gravity, 25/25°C ≥ 1.480
 Color, APHA ≤150

Physical Properties Appearance colorless to yellow liquid
 Odor pungent, sharp, irritating
 Boiling point, °C 126
 Specific gravity, 25/25°C 1.49
 Density, lbs/gal, 25°C 12.4
 Viscosity at 25°C, centipoise 1.5
 Vapor pressure, mm Hg, 20°C 4.5
 Freezing point, °C -63
 Solubility in water infinite
 Vapor density (air = 1) for HBr gas 2.8



The calculated values are expected to be within 5% of the true values.

$$\ln P(\text{mm Hg}) = 20.817 - 5660/(T + 273.15)$$

where T is in °C.

The plot is based on the above equation, developed from a study of data from several sources, including the data of Wuster, Haase, Vrevskii, Chevalier and Bonner as well as the heat of solution of HBr taken from the NBS Tech Note 270-3 and the osmotic and mean activity coefficients for HBr from the J. Phys. Chem. Ref. Data.

Shipping Information**Container Information/Shipping Classification**

Available in tank trucks, 275-gallon IBCs, and 55-gallon drums.

Proper shipping name: Hydrobromic acid
DOT Hazard Class: 8 (corrosive)
DOT ID number: UN1788
DOT Packing Group: PG II

Handling & Storage Information

Drums of hydrobromic acid solution should be stored in a safe, cool, dry place out of the sun and away from oxidizing substances.

For specific safety and handling information, please refer to the Material Safety Data Sheet, available upon request.

Chemical Registration Numbers

CAS: 10035-10-6
EINECS: 233-113-0
MITI: 1-105

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