HYDROGEN BROMIDE (HBr)

Synonyms : Hydrobromic acid

AIR LIQUIDE

Gas Description

Hydrogen Bromide is a colourless, non-flammable gas with a gas density at STP 3.44 kg/m^3.
Hydrogen Bromide fumes in moist air to produce thick acidic clouds. The gas corrosive and is very hygroscopic.

Typical applications :
Manufacturing or organic and inorganic bromides
Halogen lamps; cars, photocopiers etc
Manufacture of pharmaceuticals
Semiconductors

Transport Regulations :
UN Number : 1048
Shipping Name : HYDROGEN BROMIDE, ANHYDROUS
Class : 2.3 (8) Toxic gases (corrosive)
CAS Number : 10035-10-6
Hazchem : 2RE
Click here for MSDS
Click here for more information

Physical Properties

Chemical symbol : HBr
Molecular weight : 80.92
Specific gravity (Air=1) : 2.7
Specific volume (m^3/kg) : 0.30
Critical temperature : 90^{o}C
Boiling point : -66.8^{o}C

Melting Point : NDA
Critical pressure (bar) : 85.16
Major hazards : Inhalation, Body Contact
Toxicity : TWA 3ppm STEL peak limitation
Flammability Range : Non-Flammable
Odour : Irritating
Click here for more information

Application

INDUSTRY	APPLICATION
Electronics	Hydrogen bromide is used in plasma etching of polysilicon
Chemicals	Used in organic synthesis to add bromine atoms on molecules. The reactive species obtained are intermediates for pharmaceutical products. *Click here* for more information

Hydrogen Bromide

Gas

Typical impurities (ppm molar)

Cylinder information

Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m^3)

Available Upon Request
Call For Supply Information

Recommended Equipment

For further information *Contact* the specialty gases representative in your region.