

Common Name: **BROMOBENZENE**

Synonyms: Phenyl Bromide

CAS No: 108-86-1

Molecular Formula: C₆H₅Br

RTK Substance No: 0258

Description: Clear, colorless liquid with a pleasant (aromatic) odor

HAZARD DATA

Hazard Rating	Firefighting	Reactivity
1 - Health	COMBUSTIBLE LIQUID	
2 - Fire	Use dry chemical, CO ₂ , water spray or alcohol-resistant foam as extinguishing agents.	
0 - Reactivity	Use water spray to reduce vapors.	
DOT#: UN 2514	POISONOUS GASES ARE PRODUCED IN FIRE, including <i>Hydrogen Bromide</i> .	
ERG Guide #: 130	CONTAINERS MAY EXPLODE IN FIRE.	
Hazard Class: 3 (Flammable)	Use water spray to keep fire-exposed containers cool. Vapors may travel to a source of ignition and flash back. Vapor is heavier than air and may travel a distance to cause a fire or explosion far from the source.	Bromobenzene is not compatible with OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES, PERMANGANATES, CHLORATES, NITRATES, CHLORINE, BROMINE and FLUORINE); ALKALINE EARTH METALS (such as BERYLLIUM, MAGNESIUM and CALCIUM); METALLIC SALTS; BROMOBUTANE; and SODIUM.

SPILL/LEAKS

Isolation Distance:

Spills: 50 meters (150 feet)

Fire: 800 meters (1/2 mile)

Absorb liquids in vermiculite, dry sand, earth, or a similar material and place into sealed containers for disposal.

DO NOT wash into sewer.

Use only non-sparking tools and equipment, especially when opening and closing containers of **Bromobenzene**.

Bromobenzene is toxic to aquatic organisms.

PHYSICAL PROPERTIES

Odor Threshold:	Pleasant (aromatic)
Flash Point:	118° to 124°F (48° to 51°C)
LEL:	0.5%
UEL:	3%
Auto Ignition Temp:	1,049°F (565°C)
Vapor Density:	5.4 (air = 1)
Vapor Pressure:	5 mm Hg at 82°F (28°C)
Specific Gravity:	1.5 (water = 1)
Water Solubility:	Insoluble
Boiling Point:	313°F (156°C)
Melting Point:	-24°F (-31°C)
Ionization Potential:	9 ± 0.02 eV
Molecular Weight:	157

EXPOSURE LIMITS

The Protective Action Criteria values are:

PAC-1 = 2.5 ppm

PAC-2 = 20 ppm

PAC-3 = 350 ppm

PROTECTIVE EQUIPMENT

Gloves:	Polyvinyl Alcohol and Viton (>8-hr breakthrough for <i>Halogen compounds, Aromatics</i>)
Coveralls:	Tychem® BR, LV, Responder®, and TK; Zytron® 500; ONESuit®TEC; and Trellchem® HPS and VPS (>8-hr breakthrough for <i>Halogen compounds, Aromatics</i>).
Respirator:	>2.5 ppm - Supplied air or SCBA

HEALTH EFFECTS

Eyes: Irritation

Skin: Irritation

Inhalation: Nose and throat irritation with coughing and wheezing

Headache, dizziness, lightheadedness, and passing out

FIRST AID AND DECONTAMINATION

Remove the person from exposure.

Flush eyes with large amounts of water for at least 15 minutes. Remove contact lenses if worn.

Remove contaminated clothing and wash contaminated skin with soap and water.

Begin artificial respiration if breathing has stopped and CPR if necessary.

Transfer promptly to a medical facility.