

MATERIAL SAFETY DATA SHEET
Bromobenzene, 99%

Section 1 - Chemical Product and Company Identification

MSDS Name:	Bromobenzene, 99%
Catalog Numbers:	10668-0000, 10668-0010, 10668-2500
Synonyms:	Monobromobenzene, phenyl bromide, bromobenzol
Company Identification:	Acros Organics BVBA Janssen Pharmaceuticaaan 3a 2440 Geel, Belgium
Company Identification: (USA)	Acros Organics One Reagent Lane Fair Lawn, NJ 07410
For information in the US, call:	800-ACROS-01
For information in Europe, call:	+32 14 57 52 11
Emergency Number, Europe:	+32 14 57 52 99
Emergency Number US:	201-796-7100
CHEMTREC Phone Number, US:	800-424-9300
CHEMTREC Phone Number, Europe:	703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
108-86-1	Bromobenzene	99%	203-623-8

Hazard Symbols: XI N



Risk Phrases: 10 38 51/53

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Flammable. Irritating to skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Potential Health Effects

- Eye:** May cause eye irritation.
- Skin:** Causes skin irritation. May be absorbed through the skin in harmful amounts. If absorbed, may cause liver injury.
- Ingestion:** May cause irritation of the digestive tract. May be harmful if swallowed.
- Inhalation:** Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

May cause narcotic effects in high concentration. May cause liver abnormalities.

Chronic:

Section 4 - First Aid Measures

- Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
- Skin:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
- Ingestion:** Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.
- Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Section 5 - Fire Fighting Measures

- General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors can travel to a source of ignition and flash back. Containers may explode in the heat of a fire. This chemical poses an explosion hazard. Flammable liquid and vapor.
- Extinguishing Media:** In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam. Use water spray to cool fire-exposed containers.

Section 6 - Accidental Release Measures

- General Information:** Use proper personal protective equipment as indicated in Section 8.
- Spills/Leaks:** Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Do not let this chemical enter the environment.

Section 7 - Handling and Storage

- Handling:** Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Use spark-proof tools and explosion proof equipment. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.
- Storage:** Keep away from sources of ignition. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Flammables-area.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

CAS# 108-86-1:

Russia: 3 mg/m³ TWA (vapour)

Personal Protective Equipment

- Eyes:** Wear chemical splash goggles.
- Skin:** Wear appropriate protective gloves to prevent skin exposure.
- Clothing:** Wear appropriate protective clothing to prevent skin exposure.
- Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Liquid
Color: clear colorless to slightly yellow
Odor: aromatic odor
pH: Not available
Vapor Pressure: 3.3 mm Hg @ 20 deg C
Viscosity: 1.124 cP 20 deg C
Boiling Point: 156 deg C @ 760.00mm Hg (312.80°F)
Freezing/Melting Point: -31 deg C (-23.80°F)
Autoignition Temperature: 566 deg C (1,050.80 deg F)
Flash Point: 51 deg C (123.80 deg F)
Explosion Limits: Lower: .50 vol %
Explosion Limits: Upper: 2.50 vol %
Decomposition Temperature: Not available
Solubility in water: Negligible
Specific Gravity/Density: 1.4910g/cm3
Molecular Formula: C6H5Br
Molecular Weight: 157.01

Section 10 - Stability and Reactivity

Chemical Stability: Stable.
Conditions to Avoid: Incompatible materials, ignition sources, excess heat.
Incompatibilities with Other Materials Strong oxidizing agents.
Hazardous Decomposition Products Carbon monoxide, carbon dioxide, hydrogen bromide.
Hazardous Polymerization Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 108-86-1: CY9000000
LD50/LC50: RTECS:
CAS# 108-86-1: Inhalation, mouse: LC50 = 21 gm/m3/2H;
Inhalation, rat: LC50 = 20411 mg/m3;
Oral, mouse: LD50 = 2700 mg/kg;
Oral, rabbit: LD50 = 3300 mg/kg;
Oral, rat: LD50 = 2383 mg/kg;
Carcinogenicity: Bromobenzene - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Ecotoxicity: Fish: Fathead Minnow: LC50: 35.7mg/l; 96h; .
Other: Do not empty into drains. Non-biodegradable.
biodegradability: 0%/28dlog Pow: 2.99

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	BROMOBENZENE	BROMOBENZENE	BROMOBENZENE

Hazard Class:	3	3	3
UN Number:	2514	2514	2514
Packing Group:	III	III	III

Marine Pollutant

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XI N

Risk Phrases:

R 10 Flammable.

R 38 Irritating to skin.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

WGK (Water Danger/Protection)

CAS# 108-86-1: 2

Canada

CAS# 108-86-1 is listed on Canada's DSL List

US Federal

TSCA

CAS# 108-86-1 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 7/16/1996

Revision #1 Date 2/12/2008

Revisions were made in Sections: 6, 7, 8, 12, 14

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