# Safety data for bromine

Glossary of terms on this data sheet.

The information on this web page is provided to help you to work safely, but it is intended to be an overview of hazards, not a replacement for a full Material Safety Data Sheet (MSDS). MSDS forms can be downloaded from the web sites of many chemical suppliers.

## General

Synonyms:
Molecular formula: $Br_2$
CAS No: 7726-95-6
EC No: 231-778-1

## Physical data

Appearance: dark red liquid or reddish-brown gas
Melting point: -7.2 C
Boiling point: 58.8 C
Vapour density: 7.14
Vapour pressure: 175 mm Hg at 20 C
Specific gravity: 3.119
Flash point:
Explosion limits:
Autoignition temperature:

## Stability

Stable. Incompatible with reducing agents, alkali metals, powdered metals, steel, iron, copper, organic materials.

## Toxicology

May be fatal if inhaled. Highly toxic by inhalation, ingestion or skin contact. Causes severe burns. Lachrymator. Typical TLV 0.1 ppm. Typical STEL 0.3 ppm.

### Toxicity data

(The meaning of any abbreviations which appear in this section is given here.)
ORL-RAT LD50 2600 mg $kg^{-1}$
ORL-MAM LD50 440 mg $kg^{-1}$
IHL-MUS LC50 750 ppm/9h

### Risk phrases

(The meaning of any risk phrases which appear in this section is given here.)
R26 R27 R28 R35.

## Transport information

(The meaning of any UN hazard codes which appear in this section is given here.)
Major hazard class: 8.0. Subsidiary hazard class 6.1. Packing group: I. Transport category 1.

## Personal protection

Safety glasses and gloves. Good ventilation.

### Safety phrases

(The meaning of any safety phrases which appear in this section is given here.)
S7 S9 S26 S45

[Return to Physical & Theoretical Chemistry Lab. Safety home page.]

---



---

## SPECIFICATIONS FOR LIQUID BROMINE

| | |
|---|---|
| DESCRIPTION | DARK REDDISH BROWN, IRRITATE TO SKIN & EYES |
| SPECIFIC GRAVITY 200C | 3.11 GM/ ML |
| BOILING POINT | 59.470C |
| BROMINE ASSAY | NLT 99 .50% |
| CHLORINE | NMT 0.10 % |
| MOISTURE CONTENT | NMT 70 PPM |
| OTHER IMPURITIES | NMT 0.05 % |

* (NMT = NOT MORE THAN, NLT = NOT LESS THAN)