

## Bromotrichloromethane; CASRN 75-62-7

Human health assessment information on a chemical substance is included in the IRIS database only after a comprehensive review of toxicity data, as outlined in the [IRIS assessment development process](#). Sections I (Health Hazard Assessments for Noncarcinogenic Effects) and II (Carcinogenicity Assessment for Lifetime Exposure) present the conclusions that were reached during the assessment development process. Supporting information and explanations of the methods used to derive the values given in IRIS are provided in the [guidance documents located on the IRIS website](#).

### STATUS OF DATA FOR Bromotrichloromethane

**File First On-Line 03/01/1991**

Category (section)	Assessment Available?	Last Revised
Oral RfD (I.A.)	not evaluated	
Inhalation RfC (I.B.)	not evaluated	
Carcinogenicity Assessment (II.)	yes	03/01/1991

### I. Chronic Health Hazard Assessments for Noncarcinogenic Effects

#### I.A. Reference Dose for Chronic Oral Exposure (RfD)

Substance Name — Bromotrichloromethane  
CASRN — 75-62-7

Not available at this time.

---

#### I.B. Reference Concentration for Chronic Inhalation Exposure (RfC)

Substance Name — Bromotrichloromethane  
CASRN — 75-62-7

Not available at this time.

---

## **II. Carcinogenicity Assessment for Lifetime Exposure**

Substance Name — Bromotrichloromethane

CASRN — 75-62-7

Last Revised — 03/01/1991

Section II provides information on three aspects of the carcinogenic assessment for the substance in question; the weight-of-evidence judgment of the likelihood that the substance is a human carcinogen, and quantitative estimates of risk from oral exposure and from inhalation exposure. The quantitative risk estimates are presented in three ways. The slope factor is the result of application of a low-dose extrapolation procedure and is presented as the risk per (mg/kg)/day. The unit risk is the quantitative estimate in terms of either risk per ug/L drinking water or risk per ug/cu.m air breathed. The third form in which risk is presented is a drinking water or air concentration providing cancer risks of 1 in 10,000, 1 in 100,000 or 1 in 1,000,000. The rationale and methods used to develop the carcinogenicity information in IRIS are described in The Risk Assessment Guidelines of 1986 (EPA/600/8-87/045) and in the IRIS Background Document. IRIS summaries developed since the publication of EPA's more recent Proposed Guidelines for Carcinogen Risk Assessment also utilize those Guidelines where indicated (Federal Register 61(79):17960-18011, April 23, 1996). Users are referred to Section I of this IRIS file for information on long-term toxic effects other than carcinogenicity.

### **II.A. Evidence for Human Carcinogenicity**

#### **II.A.1. Weight-of-Evidence Characterization**

Classification — D; not classifiable as to human carcinogenicity

Basis — Based on no data regarding the carcinogenicity of bromotrichloromethane in humans or animals.

#### **II.A.2. Human Carcinogenicity Data**

None.

### **II.A.3. Animal Carcinogenicity Data**

None.

### **II.A.4. Supporting Data for Carcinogenicity**

None.

---

## **II.B. Quantitative Estimate of Carcinogenic Risk from Oral Exposure**

None.

---

## **II.C. Quantitative Estimate of Carcinogenic Risk from Inhalation Exposure**

None.

---

## **II.D. EPA Documentation, Review, and Contacts (Carcinogenicity Assessment)**

### **II.D.1. EPA Documentation**

Source Document — U.S. EPA, 1985

The 1985 Health and Environmental Effects Profile for Bromochloromethanes has received external peer review and Agency Review.

### **II.D.2. EPA Review (Carcinogenicity Assessment)**

Agency Work Group Review — 01/10/1991

Verification Date — 01/10/1991

Screening-Level Literature Review Findings — A screening-level review conducted by an EPA contractor of the more recent toxicology literature pertinent to the cancer assessment for Bromotrichloromethane conducted in August 2003 did not identify any critical new studies. IRIS users who know of important new studies may provide that information to the IRIS Hotline at [hotline.iris@epa.gov](mailto:hotline.iris@epa.gov) or 202-566-1676.

### **II.D.3. EPA Contacts (Carcinogenicity Assessment)**

Please contact the IRIS Hotline for all questions concerning this assessment or IRIS, in general, at (202)566-1676 (phone), (202)566-1749 (FAX) or [hotline.iris@epa.gov](mailto:hotline.iris@epa.gov) (internet address).

---

**III. [reserved]**

**IV. [reserved]**

**V. [reserved]**

---

### **VI. Bibliography**

Substance Name — Bromotrichloromethane  
CASRN — 75-62-7

#### **VI.A. Oral RfD References**

None.

---

#### **VI.B. Inhalation RfC References**

None.

---

#### **VI.C. Carcinogenicity Assessment References**

U.S. EPA. 1985. Health and Environmental Effects Profile for Bromochloromethanes. Prepared by the Environmental Criteria and Assessment Office, Cincinnati, OH for the Office of Solid Waste and Emergency Response, Washington, DC. PB 88-174610/AS.

## VII. Revision History

Substance Name — Bromotrichloromethane  
CASRN — 75-62-7

Date	Section	Description
03/01/1991	II.	Carcinogenicity assessment on-line
10/28/2003	II.D.2.	Screening-Level Literature Review Findings message has been added.

## VIII. Synonyms

Substance Name — Bromotrichloromethane  
CASRN — 75-62-7  
Last Revised — 03/01/1991

- 75-62-7
- Methane, bromotrichloro-
- Bromotrichloromethane
- Carbon bromotrichloride
- Caswell No. 118
- EPA Pesticide Chemical Code 008708
- HSDB 5208
- METHANE, BROMOTRICHLORO-
- Monobromotrichloromethane
- NSC 8017
- Trichlorobromomethane
- Trichloromethyl bromide