

Methyl bromide depletes the ozone in the atmosphere; therefore, its use in agriculture as a soil fumigant is no longer desirable. Methyl bromide can be prepared industrially from methanol and hydrogen bromide. Following are hypothetical kinetic data for this reaction at fifty degrees centigrade.

[Methanol], moles/liters	[HBr], moles/liters	Time, seconds
0.10	0.10	0
0.050	0.050	60
0.025	0.025	177
0.0125	0.0125	412

- Use any desirable computer program, e.g., Microsoft Excel to determine if the reaction follows a unimolecular nucleophilic substitution reaction or a bimolecular nucleophilic substitution reaction.
- Determine the rate constant for the reaction.
- Write the mechanism that would account for the formation of the soil fumigant, methyl bromide.

# Methyl Bromide The Ozone's Enemy Answers

**Huangqi Zhang**



## **Methyl Bromide The Ozone's Enemy Answers:**

*Natural Enemies* Ann E. Hajek, 2004-02-12 Introductory text covering biological control of arthropods vertebrates weeds and plant pathogens by natural enemies *Agriculture, Rural Development, and Related Agencies Appropriations for Fiscal Year 1999* United States. Congress. Senate. Committee on Appropriations. Subcommittee on Agriculture, Rural Development, and Related Agencies, 1999 ***Agriculture, Rural Development, and Related Agencies Appropriations for Fiscal Year 1994: Commodity Futures Trading Commission*** United States. Congress. Senate. Committee on Appropriations. Subcommittee on Agriculture, Rural Development, and Related Agencies, 1993 ***Agriculture, Rural Development, and Related Agencies Appropriations for Fiscal Year 1994*** United States. Congress. Senate. Committee on Appropriations. Subcommittee on Agriculture, Rural Development, and Related Agencies, 1994 ***Agriculture and Human Values***, 1984 *ESA Newsletter*, 1999 ***The Middle East, Abstracts and Index***, 1996 ***Bibliography of Agriculture with Subject Index***, 1995 *Alternatives to Methyl Bromide*, 2001 Methyl bromide a potent pest control chemical was identified as an ozone depleting substance ODS in 1972 The phase out of this toxic chemical presents a special challenge To replace methyl bromide users around the world must have access to reliable and useful technical information This publication was produced by the United Nations Environment Programme to promote the methyl bromide phase out It allows the reader to carefully and thoroughly assess many available alternatives and decide on the best option for their situation The publication also provides addresses of suppliers and specialists in alternatives references and websites and contacts for implementing agencies *The Methyl Bromide Issue* C. H. Bell, N. Price, B. Chakrabarti, 1996 Written by international experts in the field this book sets out the scientific arguments for and against the use of methyl bromide which is both naturally occurring and also a man made product believed to have played a significant role in the depletion of the ozone layer Methyl bromide is a widely used fumigant in agriculture horticulture and the preservation of structural materials The fate of this natural and man made chemical is the focus of much fierce debate with scientific political social environmental and economic arguments for and against the production and use of this chemical This book does not set out to convince the reader of a predetermined viewpoint Its purpose is to set out the scientific debate covering the major relevant fields including agriculture atmospheric chemistry oceanography environmental sciences chemistry biology and toxicology as well as two chapters on potential alternatives to methyl bromide The authors who have contributed to this book are all experts who have played pivotal roles in the international debate on methyl bromide *Methyl Bromide and Stratospheric Ozone Depletion* Library of Congress. Congressional Research Service, 2006 Discusses regulation and use of methyl bromide MBr as an ozone depleting substance addressing emissions from MBr use and efforts to acquire U S critical use allowances of MBr ***The status of methyl bromide under the Clean Air Act and the Montreal Protocol*** United States. Congress. House. Committee on Energy and Commerce. Subcommittee on Energy and Air Quality, 2004 This volume includes the transcript of the U S Congress

subcommittee hearing held in June 2003 that discussed the status of the compound methyl bromide as it pertains to the Montreal Protocol and the Clean Air Act The Montreal Protocol on Substances that Deplete the Ozone Layer is an international treaty designed to protect the ozone layer by phasing out the production of numerous substances believed to be responsible for ozone depletion The Clean Air Act is a U S federal law designed to control air pollution on a national level Methyl bromide MeBr is an odorless colorless gas that has been used as a soil fumigant and structural fumigant to control pests across a wide range of sectors Because MeBr depletes the stratospheric ozone layer the amount of MeBr produced and imported in the U S was reduced incrementally until it was phased out completely by January 1 2005 pursuant to the U S s obligation under the Montreal Protocol and the Clean Air Act

**Methyl Bromide Phase-out Strategies** Kristin Schafer, United Nations Environment Programme, 1999 *Into the Sunlight* Dan Strub, California Action Network, 1992

Methyl Bromide , 1999 **Methyl Bromide and Stratospheric Ozone Depletion** , 2006 Methyl Bromide MeBr a widely used pesticide in agriculture is regulated for its potential ozone depleting effects in the Earth s stratosphere Controls on production emissions and trade are mandated internationally under the 1987 Montreal Protocol on Substances that Deplete the Ozone Layer the Protocol and domestically under Title VI of the U S Clean Air Act A ban on production for nonessential uses occurred on December 31 2004 but the Protocol still regulates post 2004 production for critical uses U S agribusinesses have sought exemptions from the Environmental Protection Agency EPA to produce MeBr for certain critical uses after the ban Exemptions are resisted by some Protocol parties and environmental advocates who seek a rapid definitive ban on production and use Chemical companies maintain that they cannot foresee development of effective chemical substitutes for all uses of MeBr in the near term and agricultural producers indicate they may have to rely on less economical and less effective treatments Production allowances for MeBr for 2005 2008 have since been approved under the Protocol and the EPA has approved allocations for registered U S users Due to declining production of manufactured MeBr the EPA would permit commercial trade of pre 2005 inventories This report will be updated as warranted **Methyl Bromide and Ozone Depletion** Karthika Vadivel, Thangavel Perumal, Sugumaran Palani, 2015-12-23 Methyl bromide with an approximate tropospheric concentration of 8 pptv and an atmospheric lifetime of about 0.8 years Montzka et al 2011 The bromine from CH<sub>3</sub>Br is thought to deplete from 40 to 100 times more ozone than chlorine Methyl bromide is the largest source of Br to the stratosphere It contributes about 50 % of Br radicals and is believed to be responsible for 15 % of ozone depletion caused by halogen radicals Another 13 % is caused by CH<sub>3</sub>Cl and almost 50 % by CFCs CFC concentrations started to decrease in the mid 90s and the Antarctic ozone hole began to re cover However the currently predicted climate change is expected to lead to an increased emission of methyl halides and by that increase their importance for ozone depletion Global warming and further uncontrolled eutrophication of the oceans may result in an unknown increase of the emission of volatile organohalogens into the global environment While aiming for alternates for CH<sub>3</sub>Br it is also prime necessity to reduce the

natural release of CH<sub>3</sub>Br such as microbial oxidation of bromide and by chemical methods 30% NH<sub>4</sub>OH in combination with VIF virtually impermeable film Xuan et al 2011

**Methyl Bromide Risk Characterization in California** National Research Council, Commission on Life Sciences, Board on Environmental Studies and Toxicology, Committee on Toxicology, Subcommittee for the Review of the Risk Assessment of Methyl Bromide, 2000-06-13

Methyl bromide is gaseous pesticide used to fumigate soil crops commodity warehouses and commodity shipping facilities Up to 17 million pounds of methyl bromide are used annually in California to treat grapes almonds strawberries and other crops Methyl bromide is also a known stratospheric ozone depleter and as such is scheduled to be phased out of use in the United States by 2005 under the United Nations Montreal Protocol In California the use of methyl bromide is regulated by the Department of Pesticide Regulation DPR which is responsible for establishing the permit conditions that govern the application of methyl bromide for pest control The actual permits for use are issued on a site specific basis by the local county agricultural commissioners Because of concern for potential adverse health effects in 1999 DPR developed a draft risk characterization document for inhalation exposure to methyl bromide The DPR document is intended to support new regulations regarding the agricultural use of this pesticide The proposed regulations encompass changes to protect children in nearby schools establish minimum buffer zones around application sites require notification of nearby residents and set new limits on hours that fumigation employees may work The State of California requires that DPR arrange for an external peer review of the scientific basis for all regulations To this end the National Research Council NRC was asked to review independently the draft risk characterization document prepared by DPR for inhalation exposure to methyl bromide The task given to NRC s subcommittee on methyl bromide states the following The subcommittee will perform an independent scientific review of the California Environmental Protection Agency s risk assessment document on methyl bromide The subcommittee will 1 determine whether all relevant data were considered 2 determine the appropriateness of the critical studies 3 consider the mode of action of methyl bromide and its implications in risk assessment and 4 determine the appropriateness of the exposure assessment and mathematical models used The subcommittee will also identify data gaps and make recommendations for further research relevant to setting exposure limits for methyl bromide This report evaluates the toxicological and exposure data on methyl bromide that characterize risks at current exposure levels for field workers and nearby residents The remainder of this report contains the subcommittee s analysis of DPR s risk characterization for methyl bromide In Chapter 2 the critical toxicological studies and endpoints identified in the DPR document are evaluated Chapter 3 summarizes DPR s exposure assessment and the data quality and modeling techniques employed in its assessment are critiqued Chapter 4 provides a review of DPR s risk assessment including the adequacy of the toxicological database DPR used for hazard identification an analysis of the margin of exposure data and appropriateness of uncertainty factors used by DPR Chapter 5 contains the subcommittee s conclusions about DPR s risk characterization highlights data gaps and makes

recommendations for future research  
**Substitutes and Alternatives** ,1993

Methyl Bromide Canada. Environment Canada,1994

**Methyl Bromide**

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