



Halogen chemistry in volcanic plumes: a 1D framework based on MOCAGE 1D (version R1.18.1) preparing 3D global chemistry modelling

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Received: 12 July 2022 – Discussion started: 2 August 2022

Revised: 24 March 2023 – Accepted: 19 April 2023 – Published: 26 May 2023

Abstract. HBr emissions from volcanoes lead rapidly to the formation of BrO within volcanic plumes and have an impact on tropospheric chemistry, at least at the local and regional scales. The motivation of this paper is to prepare a framework for further 3D modelling of volcanic halogen emissions in order to determine their fate within the volcanic plume and then in the atmosphere at the regional and global scales. The main aim is to evaluate the ability of the model to produce a realistic partitioning of bromine species within a grid box size typical of MOCAGE (Model Of atmospheric Chemistry At large scale) 3D ($0.5^\circ \times 0.5^\circ$). This work is based on a 1D single-column configuration of the global chemistry-transport model MOCAGE that has low enough computational cost to allow us to perform a large set of sensitivity simulations. This paper uses the emissions from the Mount Etna eruption on 10 May 2008. Several reactions are added to MOCAGE to represent the volcanic plume halogen chemistry. A simple plume parameterisation is also implemented and tested. The use of this parameterisation tends to only slightly limit the efficiency of BrO net production. Both simulations with and without the parameterisation give results

for the partitioning of the bromine species, of ozone depletion and of the BrO/SO₂ ratio that are consistent with previous studies.

A series of test experiments were performed to evaluate the sensitivity of the results to the composition of the emissions (primary sulfate aerosols, Br radical and NO) and to the effective radius assumed for the volcanic sulfate aerosols. Simulations show that the plume chemistry is sensitive to all these parameters. We also find that the maximum altitude of the eruption changes the BrO production, which is linked to the vertical variability of the concentrations of oxidants in the background air. These sensitivity tests display changes in the bromine chemistry cycles that are generally at least as important as the plume parameterisation. Overall, the version of the MOCAGE chemistry developed for this study is suitable to produce the expected halogen chemistry in volcanic plumes during daytime and night-time.

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Table of Contents Halogen Chemistry Volume 2

1. Understanding the eBook Halogen Chemistry Volume 2
 - The Rise of Digital Reading Halogen Chemistry Volume 2
 - Advantages of eBooks Over Traditional Books
2. Identifying Halogen Chemistry Volume 2
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Halogen Chemistry Volume 2
 - User-Friendly Interface
4. Exploring eBook Recommendations from Halogen Chemistry Volume 2
 - Personalized Recommendations
 - Halogen Chemistry Volume 2 User Reviews and Ratings
 - Halogen Chemistry Volume 2 and Bestseller Lists

5. Accessing Halogen Chemistry Volume 2 Free and Paid eBooks
 - Halogen Chemistry Volume 2 Public Domain eBooks
 - Halogen Chemistry Volume 2 eBook Subscription Services
 - Halogen Chemistry Volume 2 Budget-Friendly Options
6. Navigating Halogen Chemistry Volume 2 eBook Formats
 - ePub, PDF, MOBI, and More
 - Halogen Chemistry Volume 2 Compatibility with Devices
 - Halogen Chemistry Volume 2 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Halogen Chemistry Volume 2
 - Highlighting and Note-Taking Halogen Chemistry Volume 2
 - Interactive Elements Halogen Chemistry Volume 2
8. Staying Engaged with Halogen Chemistry Volume 2
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Halogen Chemistry Volume 2
9. Balancing eBooks and Physical Books Halogen Chemistry Volume 2
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Halogen Chemistry Volume 2
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Halogen Chemistry Volume 2
 - Setting Reading Goals Halogen Chemistry Volume 2
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Halogen Chemistry Volume 2
 - Fact-Checking eBook Content of Halogen Chemistry Volume 2
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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