

## ***Interactive comment on “The role of volatile organic compounds in the polluted urban atmosphere of Bristol, UK” by A. C. Rivett et al.***

**N. Jensen**

NIELS.JENSEN@JRC.IT

Received and published: 8 April 2003

RC Comments (Referee Comments):

- 1) Page 769, line 5: Exchange 'GC-FID' with 'Gas chromatography flame ionization detection (GC-FID)'.
- 2) Page 769, line 6: Exchange 'GC-ECD' with 'Gas chromatography electron capture detection (GC-ECD)'.
- 3) Page 772, line 9: Exchange the sentence '40 žC over a period of approximately 9 month' with '40 žC. The measuring period was approximately 9 months'.
- 4) Page 773, line 3: Write out the abbreviation 'AGAGE'.
- 5) Page 773, line 3: After the word 'network', add a reference if possible.

Full Screen / Esc

Print Version

Interactive Discussion

Discussion Paper

6) Page 774, formula (1): Explain the assumptions made for the formula (under which conditions is it valid).

7) Page 774, under section 4.1: Please write an example of exactly how the formula (1) was used, which rate constant for benzene that was used (with reference), which results came out of the formula and what was the conclusion (Table 1 ?).

8) Page 775, line 10: Exchange the sentence 'OH can be formed from the reaction of HO<sub>2</sub> with the nitrate radical (Eq. 2a) or with ozone (Eq. 2b)' with 'OH can be formed from the reaction of HO<sub>2</sub> with the nitrate radical (Eq. 2a) or with ozone (Eq. 2b) or with NO (Eq. 2c)'.

9) Page 775, line 14: Add 'HO<sub>2</sub> + NO → OH + NO<sub>2</sub> (2c)'

10) Page 775, line 16: Exchange '(2a) and (2b)' with '(2a), (2b) and (2c)'.

11) Page 776, formula (6): How do you calculate/know the dispersion factor ?

12) Page 776, under the Alkene Decay section: Please show a specific example of the use of formula (6).

13) Page 776, line 12: What is the uncertainty of the value  $3.8 \times 10^5$  molecules cm<sup>-3</sup> ?

14) Page 776, under the Steady-State concentration section under formula (7): Maybe one should consider to include also  $+ k[\text{HO}_2][\text{NO}]$ .

15) Page 778, under the Steady-State Concentration section: Why are isoprene and the monoterpenes not included in the calculations ?

16) Page 778: Show an example of the use of formula (8).

17) Page 778: Show an example of the use of formula (9).

18) Page 779: If possible, please compare the results obtained in section 4.3 with results from other investigations.

[Full Screen / Esc](#)[Print Version](#)[Interactive Discussion](#)[Discussion Paper](#)

19) Page 779, line 11, exchange 'summer' with 'summer year 2000'.

20) Table 1: Add year and place in the headline.

21) Figure 3: Write out 'TCE' and 'PCE'.

---

Interactive comment on Atmos. Chem. Phys. Discuss., 3, 769, 2003.

Full Screen / Esc

Print Version

Interactive Discussion

Discussion Paper