CMD Data Reporting Sheet GPP

PI: Ernesto Martinez
Reporting date: 10 April 2000
Project title: GPP9 “Reactivity of the NO$_3$ radical with terpenes.”
Contact person: E. Martinez, Emartinez@qifi-cr.uclm.es (must not be identical with PI)

<table>
<thead>
<tr>
<th>Reaction</th>
<th>A-factor $(\text{cm}^3 \text{s}^{-1})$</th>
<th>E/R (K)</th>
<th>$k(298\text{K})$ $(\text{cm}^3 \text{s}^{-1})$</th>
<th>References, remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO$_3$ + camphene = Products</td>
<td>$(3.1\pm0.5)\times10^{-12}$</td>
<td>$(4.0\pm0.5)/R$</td>
<td>$(0.62\pm0.21)\times10^{-12}$</td>
<td>1a,b,c</td>
</tr>
<tr>
<td>X + Y = Z</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Mechanistic information, if available (e.g. a degradation scheme of camphene + O$_3$)  2b,c
Products (types, yields, properties), if available (e.g. table of identified products; their yields; aerosol yields; vapour pressures of condensable products at given temperature, etc.)  3a,b,c
Theoretical (e.g. structure of transition state of NO$_3$ + camphene; barrier height; structure-activity-relationship SAR; other theoretical results relevant to mechanism development)  4a,b,c

Ref., remarks *)

| 1b | CMD Annual Report 1998 p. 59 |
| 1c | Relative rate technique, T-range from ..... to ....... |

*) Use **index a** for peer-reviewed publications; **index b** for “grey literature”, **index c** for remarks etc.
CMD Data Reporting Sheet APP

PI: Janine Lagrange

Reporting date:
Project title:
Contact person:

<table>
<thead>
<tr>
<th>Reaction</th>
<th>A-factor (M(^{-1}) s(^{-1}))</th>
<th>E/R (K)</th>
<th>k(298K) (M(^{-1}) s(^{-1}))</th>
<th>References, remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO(_2^–) + H(^+) = HONO</td>
<td>n.d.</td>
<td>n.d.</td>
<td>1070</td>
<td>1a,b,c</td>
</tr>
<tr>
<td>X + Y = Z</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Mechanistic information, if available
- e.g. ionic strength dependence of a rate constant 1b,c

Solubilities etc.
- H (M atm\(^{-1}\)), T-dependence; Diffusion coefficients; other relevant properties of solutes

Theoretical
- theoretical relationships relevant to mechanism development 4a,b,c

Ref., remarks *)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1a</td>
<td></td>
</tr>
<tr>
<td>1c</td>
<td>Spectrophotometric detection of .....</td>
</tr>
</tbody>
</table>

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### CMD Data Reporting Sheet HEP

**PI:**  
**Reporting date:**  
**Project title:**  
**Contact person:**

<table>
<thead>
<tr>
<th>Reaction</th>
<th>Initial reaction probability</th>
<th>Final react. Prob.</th>
<th>yield</th>
<th>Ref., remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO$_2$ + soot = HONO</td>
<td>$5 \times 10^{-4}$</td>
<td>$&lt; 10^{-5}$ (t &gt; 120 s)</td>
<td>$8 \times 10^{14}$ HONO cm$^{-2}$</td>
<td>1a, b, c</td>
</tr>
</tbody>
</table>

**Mechanistic information, if available**  
Rel. humidity dependence (describe). Postulated mechanism (formula). Proposed parameterisation  

1b,c

**Spectral information**  
DRIFTS spectra, temporal evolution, kinetic information  

2b, c

**SOA formation**  
Aerosol yield (following Hoffmann/Odum formalism); T-dependence; vapour pressure estimates; IR spectra of SOA etc.

**Ref., remarks *)**

| 1a |
| 1b |
| 1c |

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# CMD Data Reporting Sheet MPM

PI:  
Reporting date:  
Project title:  
Contact person:  

| Type of mechanism and other relevant information | CAPRAM2.4 etc. (xxx species in the liquid phase, yyy exchanging between gas- and liquid phase, zzz reactions in liquid phase). | 1a  
| |  | 1b  
| Solver used (optional) | e.g. FACSIMILE | 2a  
| Examples of applications | Box model simulation of cloud: CAPRAM2.4 + RACM (other relevant information, e.g. phase equilibrium assumed / not assumed) | 2b  

**Ref., remarks *)**

| 1a  
| 1b  
| 1c  

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