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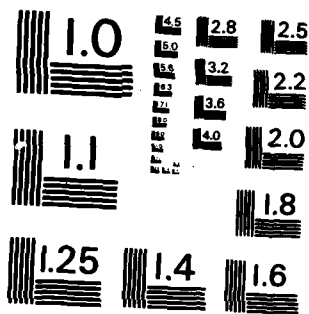
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**CUMULATIVE REACTANT SPECIES INDEX FOR VOLUMES I-VIII
OF THE COMPILATION OF DATA RELEVANT TO GAS LASERS
VOLUME IX**

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19. KEY WORDS (Continue on reverse side if necessary and identify by block number) See Reverse		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This volume contains a cumulative reactant species index for MIRADCOM Technical Report H-78-1. Volumes I and II covered data relevant to rare gas and gas-monohalide excimer lasers; Volumes III - VI covered data relevant to nuclear pumped lasers; and Volumes VII - VIII covered additional data relevant to gas lasers.		

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19. KEYWORDS

Lasers

Rare gas - rare gas excimers

Rare gas - monohalide excimers

Cross sections

Lifetimes

Reaction rates

Transport properties

Particle collisions

Potential energy curves

Excitation

Ionization

Laser pumping mechanisms

Heavy nuclides

Light nuclides

High energy electron beams

High energy ion beams

Notes Concerning Use of Index

1. For references to electron - heavy particle collisions, look under "Electrons".
2. For references to photon - heavy particle collisions, look under the heading for the heavy particle involved.
3. For references to heavy particle - heavy particle collisions, it may be necessary to look under the headings for each of the species involved. In general, each combination of reactants is listed only once.

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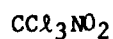
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On Cl^- , two-body recombination 1359



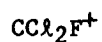
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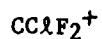
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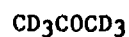
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On Cl^- , two-body recombination 1359



Electron affinity 1161



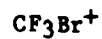
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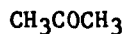
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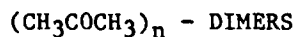
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(CO₂)₂ - DIMERS

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$\text{CO}_3(\text{H}_2\text{O})$

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CO_3^-

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$\text{CO}_3^- \cdot \text{H}_2\text{O}$

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$\text{Ca}(^1\text{P}_1)$

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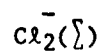
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Energy parameters 152



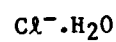
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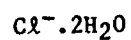
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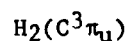
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$\text{H}_3\text{O}^+ \cdot \text{H}_2\text{O}$
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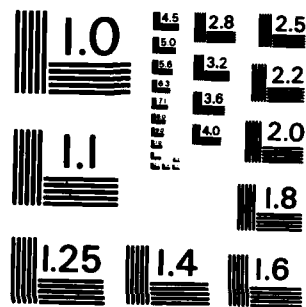
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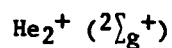
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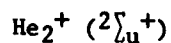
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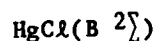


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Electron affinity 1160

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NH₂

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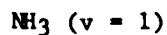
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Na

Electron affinity 1160

On Br, charge transfer 2786

On Cl, charge transfer 2785

On I, charge transfer 2786

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Na^+

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Nb

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Ni

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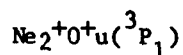
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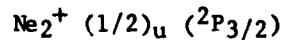
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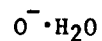
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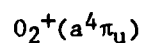
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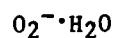
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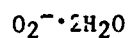
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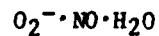
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PO

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Pa

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Pb

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SO⁻

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S_2

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Sb

Polarizability 1157

Sb^+

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Sc

Polarizability 1156

Sc^+

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Sn

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