

(continuation)

<u>Crystal</u>	<u>Crystal Symmetry</u>	<u>Distance (A)</u>	<u>Barrier Height (kcal mole<sup>-1</sup>)</u>	<u><math>\nu_6</math></u>	<u><math>\nu_1</math></u>	<u><math>\nu_2</math></u>	<u><math>\nu_3</math></u>	<u><math>\nu_4</math></u>	<u>References</u>
<u>IODIDE</u>		<u>dN-I</u>							66, 71
NH <sub>4</sub> I	Cubic, O <sub>h</sub> <sup>5</sup>	3.62			3075	1655	3130	1410	88-92
<u>OXIDE</u>		<u>dN-O</u>							68, 73, 77, 79
(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	Rhomb., V <sub>h</sub> <sup>16</sup>	2.93- 3.54	2.3, 3.9, 2.7 (305) doublet		3160	1672	3210	1417	93-96
NH <sub>4</sub> NO <sub>3</sub>	Rhomb., V <sub>h</sub> <sup>13</sup>	2.05	2.4		3130	1656	3190, 3230, 3250	1414, 1462	77, 96-98
NH <sub>4</sub> ClO <sub>4</sub>	Rhomb., V <sub>h</sub> <sup>16</sup>	2.93 - 3.08	0.1-0.2		3206		3290	1425	68, 96, 99-102

+The same temperature shift as that of NH<sub>4</sub>Cl was assumed.