

Table 6-1. REACTIONS OF ALKOXYL, ALKYLPEROXYL AND ACYLPEROXYL RADICALS WITH NO AND NO<sub>2</sub>

	NO		NO <sub>2</sub>	
Free Radical	Reaction	Reference	Reaction	Reference
OH	$\text{OH} + \text{NO} \rightarrow \text{HONO}$	Hampson and Garvin, 1978 <sup>9</sup>	$\text{OH} + \text{NO}_2 \rightarrow \text{HONO}_2$	Tsang et al., 1977 <sup>18</sup>
HO <sub>2</sub>	$\text{HO}_2 + \text{NO} \rightarrow \text{NO}_2 + \text{OH}$	Howard and Evenson, 1977 <sup>19</sup>	$\text{HO}_2 + \text{NO}_2 \rightarrow \text{HONO} + \text{O}_2$ $\quad \quad \quad \rightarrow \text{HO}_2\text{NO}_2$ $(\text{HO}_2\text{NO}_2 \rightarrow \text{HO}_2 + \text{NO}_2)$	Howard, 1977 <sup>20</sup> Graham et al., 1977 <sup>21</sup>
RO	$\text{RO} + \text{NO} \rightarrow \text{RONO}$ $(\text{RONO} + \text{h}\nu \rightarrow \text{RO} + \text{NO})$	Batt et al. <sup>23</sup>	$\text{RO} + \text{NO}_2 \rightarrow \text{RONO}_2$ $\quad \quad \quad \rightarrow \text{RCHO} + \text{HONO}$	Wiebe et al. <sup>24</sup>
RO <sub>2</sub>	$\text{RO}_2 + \text{NO} \rightarrow \text{NO}_2 + \text{RO}$ $\quad \quad \quad \rightarrow \text{RONO}_2$		$\text{RO}_2 + \text{NO}_2 \rightarrow \text{RO}_2\text{NO}_2$ $(\text{RO}_2\text{NO}_2 \rightarrow \text{RO}_2 + \text{NO}_2)$	
RCO <sub>3</sub>	$\text{RCO}_3 + \text{NO} \rightarrow \text{NO}_2 + \text{RCO}_2$	Cox and Roffey <sup>25</sup>  Hendry and Kenley <sup>26</sup>	$\text{RCO}_3 + \text{NO}_2 \rightarrow \text{RCO}_3\text{NO}_2$ $(\text{RCO}_3\text{NO}_2 \rightarrow \text{RCO}_3 + \text{NO}_2)$	Cox and Roffey <sup>25</sup>  Hendry and Kenley <sup>26</sup>