

No.	Reaction	$\Delta^{17}\text{O}$ of product		Reference
		Expression	Value (‰) ^a	
R1	$\text{NO} + \text{O}_3 \rightarrow \text{NO}_2 + \text{O}_2$	$\Delta^{17}\text{O}(\text{NO}_2) = 1.18 \times \Delta^{17}\text{O}(\text{O}_3) + 6.6 \text{‰}$	37	Savarino et al. (2008)
R2	$\text{NO} + \text{HO}_2/\text{RO}_2 \rightarrow \text{NO}_2 + \text{OH}/\text{RO}$	$\Delta^{17}\text{O}(\text{NO}_2) = 0.0$	0.0	Sofen et al. (2014)
R4	$\text{NO}_2 + \text{O}_3 \rightarrow \text{NO}_3 + \text{O}_2$	$\Delta^{17}\text{O}(\text{NO}_3) = \frac{2}{3}\Delta^{17}\text{O}(\text{NO}_2) + \frac{1}{3}(1.23 \times \Delta^{17}\text{O}(\text{O}_3) + 9.0 \text{‰})$	$25\alpha + 14$	Berhanu et al. (2012)
R5	$\text{NO}_2 + \text{NO}_3 \rightarrow \text{N}_2\text{O}_5$	$\Delta^{17}\text{O}(\text{N}_2\text{O}_5) = \frac{2}{5}\Delta^{17}\text{O}(\text{NO}_2) + \frac{3}{5}\Delta^{17}\text{O}(\text{NO}_3)$	$30\alpha + 8$	Sofen et al. (2014)
R6	$\text{NO}_2 + \text{OH} \rightarrow \text{HNO}_3$	$\Delta^{17}\text{O}(\text{NO}_3^-) = \frac{2}{3}\Delta^{17}\text{O}(\text{NO}_2)$	25α	Sofen et al. (2014)
R7	$2\text{NO}_2 + \text{H}_2\text{O} \rightarrow \text{HNO}_3 + \text{HNO}_2$	$\Delta^{17}\text{O}(\text{NO}_3^-) = \frac{2}{3}\Delta^{17}\text{O}(\text{NO}_2)$	25α	^b
R8	$\text{NO}_3 + \text{HC} \rightarrow \text{HNO}_3 + \text{products}$	$\Delta^{17}\text{O}(\text{NO}_3^-) = \Delta^{17}\text{O}(\text{NO}_3)$	$25\alpha + 14$	Sofen et al. (2014)
R9	$\text{N}_2\text{O}_5 + \text{H}_2\text{O} \rightarrow 2\text{HNO}_3$	$\Delta^{17}\text{O}(\text{NO}_3^-) = \frac{5}{6}\Delta^{17}\text{O}(\text{N}_2\text{O}_5)$	$25\alpha + 7$	Sofen et al. (2014)
R10	$\text{N}_2\text{O}_5 + \text{Cl}^- \rightarrow \text{HNO}_3 + \text{ClNO}_2$	$\Delta^{17}\text{O}(\text{NO}_3^-) = \Delta^{17}\text{O}(\text{NO}_3)$	$25\alpha + 14$	^c