

## IUPAC Task Group on Atmospheric Chemical Kinetic Data Evaluation – Data Sheet Ox\_VOC3

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This datasheet last evaluated: May 2020; last change in preferred values: May 2020

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The kinetics and HO yield data previously summarised in this data sheet have been superseded by information provided in the data sheets listed below.

Reaction ID	Reaction
<i>Alkene reactions</i>	
Ox_VOC5	$\text{O}_3 + \text{C}_2\text{H}_4 \rightarrow \text{products}$
Ox_VOC6	$\text{O}_3 + \text{C}_3\text{H}_6 \rightarrow \text{products}$
Ox_VOC7	$\text{O}_3 + \text{CH}_2=\text{C}(\text{CH}_3)\text{CH}=\text{CH}_2 \rightarrow \text{products}$
Ox_VOC15	$\text{O}_3 + 2\text{-methylpropene} \rightarrow \text{products}$
Ox_VOC16	$\text{O}_3 + \text{but-1-ene} \rightarrow \text{products}$
Ox_VOC17	$\text{O}_3 + \text{cis-but-2-ene} \rightarrow \text{products}$
Ox_VOC18	$\text{O}_3 + \text{trans-but-2-ene} \rightarrow \text{products}$
Ox_VOC41	$\text{O}_3 + 2,3\text{-dimethylbut-2-ene} \rightarrow \text{products}$
<i>Monoterpene reactions</i>	
Ox_VOC8	$\text{O}_3 + \alpha\text{-pinene} \rightarrow \text{products}$
Ox_VOC19	$\text{O}_3 + \beta\text{-pinene} \rightarrow \text{products}$
Ox_VOC20	$\text{O}_3 + \text{limonene} \rightarrow \text{products}$
Ox_VOC21	$\text{O}_3 + \text{camphene} \rightarrow \text{products}$
Ox_VOC22	$\text{O}_3 + 2\text{-carene} \rightarrow \text{products}$
Ox_VOC23	$\text{O}_3 + 3\text{-carene} \rightarrow \text{products}$
Ox_VOC24	$\text{O}_3 + \text{myrcene} \rightarrow \text{products}$
Ox_VOC25	$\text{O}_3 + \text{ocimene} \rightarrow \text{products}$
Ox_VOC26	$\text{O}_3 + \alpha\text{-phellandrene} \rightarrow \text{products}$
Ox_VOC27	$\text{O}_3 + \beta\text{-phellandrene} \rightarrow \text{products}$
Ox_VOC28	$\text{O}_3 + \text{sabinene} \rightarrow \text{products}$
Ox_VOC29	$\text{O}_3 + \alpha\text{-terpinene} \rightarrow \text{products}$
Ox_VOC30	$\text{O}_3 + \gamma\text{-terpinene} \rightarrow \text{products}$
Ox_VOC31	$\text{O}_3 + \text{terpinolene} \rightarrow \text{products}$
<i>Sesquiterpene reactions</i>	
Ox_VOC32	$\text{O}_3 + \beta\text{-caryophyllene} \rightarrow \text{products}$
Ox_VOC33	$\text{O}_3 + \alpha\text{-cedrene} \rightarrow \text{products}$
Ox_VOC34	$\text{O}_3 + \alpha\text{-copaene} \rightarrow \text{products}$
Ox_VOC35	$\text{O}_3 + \alpha\text{-farnesene} \rightarrow \text{products}$
Ox_VOC36	$\text{O}_3 + \beta\text{-farnesene} \rightarrow \text{products}$
Ox_VOC37	$\text{O}_3 + \alpha\text{-humulene} \rightarrow \text{products}$
Ox_VOC38	$\text{O}_3 + \text{isolongifolene} \rightarrow \text{products}$
Ox_VOC39	$\text{O}_3 + \text{longifolene} \rightarrow \text{products}$
Ox_VOC40	$\text{O}_3 + \text{valencene} \rightarrow \text{products}$

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