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Table S1a. Comparison of the k_{OH} and k_{Cl} at 298 ± 2 K, methods, and lifetime (τ_{OH} , τ_{Cl} , τ_{eff}) for the existing ethers in theory. (Blue font is obtained from this paper. Black font is obtained from the reference)

Ethers	k_{OH}	Methods	k_{Cl}	Methods	τ_{OH} (years)	τ_{Cl} (years)	τ_{eff} (years)
CH ₃ OCH ₃	2.15×10 ⁻¹²	CVT/SCT MP2			0.015		
CH ₃ OCF ₃	1.22×10 ⁻¹⁴	CVT/SCT MP2			2.60		
CF ₃ OCHF ₂	3.38×10 ⁻¹⁶	CVT/SCT B3LYP	2.80×10 ⁻¹⁷	CVT/SCT B3LYP	93.82	1.13×10 ⁵	93.74
CHF ₂ OCHF ₂	2.40×10 ⁻¹⁵	CTST MPWB1K	6.1×10 ⁻¹⁶	CTST MPWBK	12	5198.33	15
CH ₂ FOCH ₂ F	6.06×10 ⁻¹⁶	CVT/SCT B3LYP			52.33		
CH ₃ OCHCl ₂	2.03×10 ⁻¹³	CVT/SCT BH&HLYP	1.20×10 ⁻¹²	CVT/SCT BH&HLYP	0.156	2.642	0.147
CH ₃ OCH ₂ CH ₃	5.00×10 ⁻¹²	CVT/SCT B3LYP			0.0063		
CH ₃ OCHF ₂ CF ₃	9.01×10 ⁻¹⁴	CVT/SCT MP2	1.39×10 ⁻¹⁰	CVT BH&HLYP	0.352	0.023	0.021
CH ₃ OCH ₂ CF ₃	2.17×10 ⁻¹²	CTST MPWB1K	2.55×10 ⁻¹¹	CVT/SCT MP2	0.066	0.124	0.043
CH ₃ OCF ₂ CHF ₂			2.41×10 ⁻¹³	CVT/SCT B3LYP		13.16	
CH ₂ FOCH ₂ CF ₃			5.85×10 ⁻⁹	CVT/SCT MP2		5.42×10 ⁻⁴	
CH ₂ FOCF ₂ CHFCl	1.20×10 ⁻¹⁴	CVT/SCT BMK			2.64		
CH ₃ OCF ₂ CHFCl	2.00×10 ⁻¹⁴	CVT/SCT BMK			1.58		
CH ₃ OCF ₂ CF ₃			6.84×10 ⁻¹⁵	CVT/SCT MP2		4.8	
CHF ₂ OCF ₂ CHFCl	9.08×10 ⁻¹⁵	CVT/SCT BMK	2.90×10 ⁻¹⁵	CVT/SCT B3LYP	3.49	1093.44	3.48
CHF ₂ OCF ₂ CHF ₂	1.01×10 ⁻¹⁵	CTST MPWB1K			35		
CHF ₂ OCHClCF ₃	2.51×10 ⁻¹⁴	CVT/SCT B3LYP	6.67×10 ⁻¹⁵	CVT/SCT B3LYP	1.26	475.41	1.256
CHF ₂ OCHF ₂ CF ₃	7.06×10 ⁻¹⁵	CVT/SCT B3LYP	1.45×10 ⁻¹⁵	CVT/SCT B3LYP	4.49	2186.89	4.48
			0.11×10 ⁻¹⁵	CTST wB97XD		2.88×10 ⁴	
CHF ₂ OCF ₂ CH ₂ F	6.74×10 ⁻¹⁵	CVT/SCT B3LYP			4.7		
CHF ₂ OCH ₂ CF ₃	2.38×10 ⁻¹³	CVT/SCT B3LYP	2.38×10 ⁻¹⁴	CVT/SCT B3LYP	0.133	133.23	0.1328
			3.99×10 ⁻¹⁴	CVT/SCT MP2		79.47	
CF ₃ OCH ₂ CH ₃	5.30×10 ⁻¹⁴	CTST MPWB1K	7.78×10 ⁻¹³	CTST MPWB1K	0.598	4.075	0.521
	7.6×10 ⁻¹⁴	CTST M06-2X			0.417		
CF ₃ OCHF ₂ CHF ₂	6.64×10 ⁻¹⁵	CVT/SCT B3LYP	4.27×10 ⁻¹⁵	CVT/SCT BH&HLYP	4.77	742.61	4.74
CF ₃ OCHF ₂ CF ₃	1.30×10 ⁻¹⁵	ICVT/SCT BH&HLYP	3.06×10 ⁻¹⁷	ICVT/SCT BH&HLYP	24.39	1.04×10 ⁵	24.38
CF ₃ OCH ₂ CHF ₂	2.74×10 ⁻¹⁴	CVT/SCT B3LYP			1.16		
CF ₃ OCH ₂ CF ₃	5.47×10 ⁻¹²	CTST B3LYP	7.19×10 ⁻¹⁵	CVT/SCT MP2	0.0058	441.03	0.0057
CF ₃ OCF ₂ CHF ₂	1.50×10 ⁻¹⁵	CTST MPWB1K	5.30×10 ⁻¹⁷	CTST MPWB1K	21.14		
CF ₃ OCF ₂ CHF ₂ CF ₃	1.22×10 ⁻¹⁵	CTST M06-2X	3.40×10 ⁻¹⁷	CTST M06-2X	25.99	9.33×10 ⁴	38.5
CH ₃ OCH ₂ CF ₂ CF ₃	3.59×10 ⁻¹³	CTST M06-2X			0.115		
CH ₃ OCF ₂ CF ₂ CF ₃	7.76×10 ⁻¹⁵	CTST M06-2X	4.67×10 ⁻¹⁴	CTST M06-2X	4.09	67.90	4.4
CF ₃ CH ₂ OCH ₂ CF ₃	1.32×10 ⁻¹³	CTST M06-2X			0.272		
(CF ₃) ₂ CHOCH ₂ F	3.68×10 ⁻¹⁴	CTST M06-2X	1.10×10 ⁻¹³	CTST BH&HLYP	5.99	28.83	4.96
			2.60×10 ⁻¹³	CTST wB97XD		12.20	
(CF ₃) ₂ CHOCH ₃	1.88×10 ⁻¹³	CTST MPWB1K			0.189		
(CF ₃) ₂ CFOCH ₃	1.25×10 ⁻¹⁴	CVT/SCT B3LYP	1.34×10 ⁻¹⁴	CVT/SCT B3LYP	2.54	236.64	2.51
CHF ₂ OCH ₂ CF ₂ CF ₃	9.05×10 ⁻¹⁵	CVT/SCT BMK			3.50		
CHF ₂ CF ₂ OCH ₂ CF ₃	1.01×10 ⁻¹⁴	CTST M06-2X			4.50		
CF ₃ CH ₂ OCF ₂ CHF ₂ CF ₃	9.10×10 ⁻¹⁵	CTST M06-2X	4.77×10 ⁻¹⁷	CTST M06-2X	3.48	6.65×10 ⁴	3.479

Table S1b. Comparison of the k_{OH} and k_{Cl} at 298 ± 2 K, methods, and lifetime (τ_{OH} , τ_{Cl} , τ_{eff}) for the existing esters in theory. (Blue font is obtained from this paper. Black font is obtained from the reference)

Esters	k_{OH}	Methods	k_{Cl}	Methods	τ_{OH} (days)	τ_{Cl} (years)	τ_{eff} (years)
$\text{CH}_3\text{COOCH}_3$	3.26×10^{-13}	CVT/SCT MP2	2.61×10^{-12}	CTST MPWB1K	35.50	0.121	0.054
$\text{CF}_2\text{HCOOCH}_3$	6.06×10^{-14}	ICVT/SCT M06-2X	1.18×10^{-13}	CVT/SCT B3LYP	190.99	26.87	0.513
	1.38×10^{-14}	CTST MPWB1K	1.95×10^{-13}	CTST MPWB1K	42	16	0.114
$\text{CH}_2\text{FCOOCH}_3$	2.44×10^{-13}	CTST MPWB1K	2.62×10^{-13}	CTST MPWB1K	24	12.10	1.21
$\text{CF}_3\text{COOCH}_3$	4.05×10^{-14}	CVT/SCT B3LYP	8.75×10^{-14}	CVT/SCT B3LYP	285.78	36.24	0.766
	5.50×10^{-14}	CTST MPWB1K	5.90×10^{-14}	CTST MPWB1K	210.44	53.75	0.570
$\text{CF}_2\text{ClCOOCH}_3$	9.10×10^{-14}	CTST MPWB1K	1.20×10^{-12}	CTST MPWB1K	127.19	2.64	0.389
$\text{CF}_3\text{COOCH}_2\text{CH}_3$	7.00×10^{-13}	ICVT/SCT M06-2X	9.96×10^{-13}	CVT/SCT B3LYP	16.53	3.18	0.045
			1.60×10^{-12}	CTST MPWB1K		1.98	0.044
$\text{CF}_2\text{ClCOOCH}_2\text{CH}_3$	5.09×10^{-13}	CTST MPWB1K	1.86×10^{-12}	CTST MPWB1K	22.74	1.70	0.066
$\text{CF}_3\text{COOCH}_2\text{CF}_3$	5.30×10^{-13}	CTST MPWB1K	2.00×10^{-14}	CTST MPWB1K	21.84	158.55	0.060
	1.20×10^{-13}	CTST M06-2X	9.80×10^{-16}	CTST M06-2X	96.45	3235.69	0.15
$\text{CH}_3(\text{CH}_2)_2\text{COOCH}_2\text{CH}_3$	4.87×10^{-12}	CTST M06-2X			2.37		

Table S1c. Comparison of the k_{OH} and k_{Cl} at 298 ± 2 K, methods, and lifetime (τ_{OH} , τ_{Cl} , τ_{eff}) for the existing alcohols in theory. (Blue font is obtained from this paper. Black font is obtained from the reference)

alcohols	k_{OH}	Methods	k_{Cl}	Methods	τ_{OH} (days)	τ_{Cl} (years)	τ_{eff} (years)
CH ₃ OH	6.82×10 ⁻¹³	CTST BH&HLYP			16.97		
	7.97×10 ⁻¹³	VTST MP2			14.52		
CF ₃ OH	9.7×10 ⁻¹⁸	CTST MP2			1.19×10 ⁶		
CH ₃ CH ₂ OH	2.40×10 ⁻¹²	CTST BH&HLYP			4.82		
	2.71×10 ⁻¹²	VTST MP2			4.27		
CH ₂ FCH ₂ OH			2.51×10 ⁻¹¹	CVT/SCT MP2		0.126	
CF ₂ HCH ₂ OH			2.83×10 ⁻¹²	CVT/SCT MP2		1.12	
CF ₃ CH ₂ OH	9.89×10 ⁻¹⁴	CVT/SCT B3LYP	6.05×10 ⁻¹³	CVT/SCT MP2	117.03	5.24	0.302
CF ₃ CH(OH)CF ₃	3.54×10 ⁻¹⁴	CVT/SCT M06-2X			441.65		
	2.01×10 ⁻¹⁴	CVT/SCT B3LYP			575.82		
<i>n</i> -CH ₃ CH ₂ CH ₂ OH	4.04×10 ⁻¹²	CTST BH&HLYP			2.86		
<i>i</i> -CH ₃ CH ₂ CH ₂ OH	4.19×10 ⁻¹²	CTST BH&HLYP			2.76		
CF ₃ CH ₂ CH ₂ OH	4.70×10 ⁻¹³	CVT/SCT M06-2X			24.62		
CF ₃ CF ₂ CH ₂ OH	8.44×10 ⁻¹⁴	CVT/SCT B3LYP	3.19×10 ⁻¹³	CVT/SCT BH&HLYP	137.13	9.94	0.362
			7.14×10 ⁻¹³	CTST MP2		4.44	
CH ₃ (CH ₂) ₃ OH	6.88×10 ⁻¹²	CTST BH&HLYP			1.68		
	5.51×10 ⁻¹²	MS-CVT/SCT			2.10		
		MG3S					
CF ₃ (CH ₂) ₃ OH	3.93×10 ⁻¹²	CVT/SCT MP2			2.94		
(CF ₃) ₂ C(OH)CH ₃	7.46×10 ⁻¹⁵	CTST M06-2X			1825		