
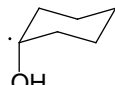
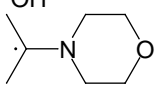
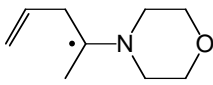
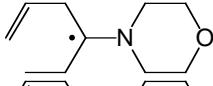
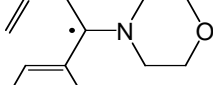
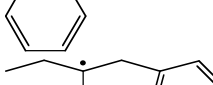
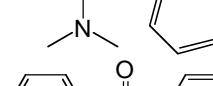
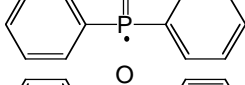
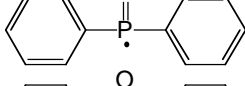
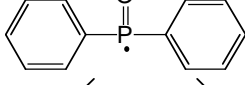
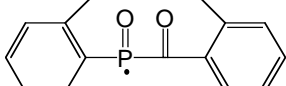
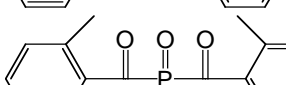
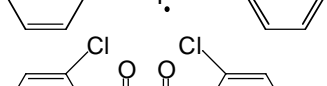
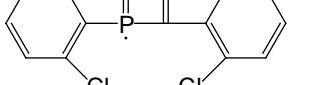
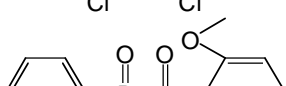
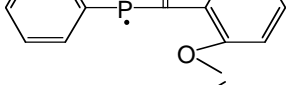
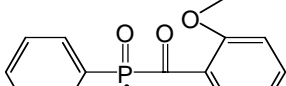
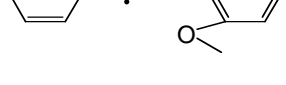
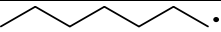

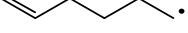

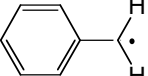
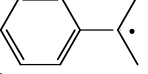


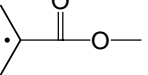

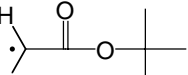

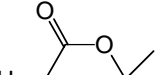
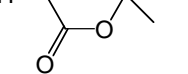
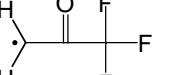
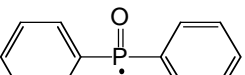
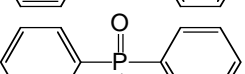
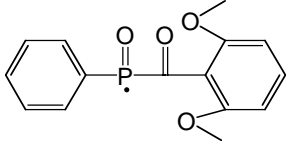





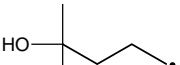
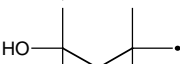

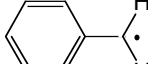
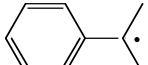


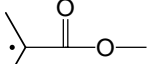



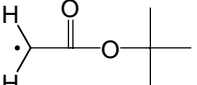
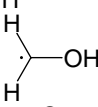
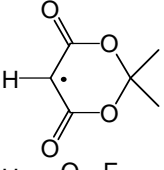
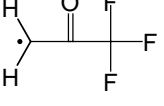

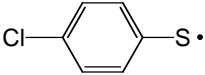
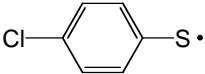
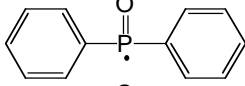
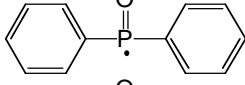
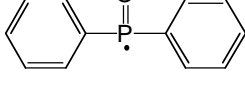
List of addition rate constants

Radical	Alkene	Solvent	$k / M^{-1} s^{-1}$	$E_a / kJ mol^{-1}$	log (A)	M	Lit
	NBA	MeCN	$1.3 \cdot 10^7$	-	-	LFP	99joc1
	NBA	MeCN	$1.1 \cdot 10^7$	-	-	LFP	99joc1
	NBA		$2.9 \cdot 10^7$	-	-	LFP	99joc1
	NBA	MeCN	$1.8 \cdot 10^7$	-	-	LFP	99joc1
	NBA	MeCN	$7.5 \cdot 10^6$	-	-	LFP	99joc1
	NBA	MeCN	$< 0.1 \cdot 10^6$	-	-	LFP	99joc1
	NBA	MeCN	$6.1 \cdot 10^6$	-	-	LFP	99joc1
	NBA	MeCN	$2.8 \cdot 10^7$	-	-	LFP	98joc1
	NBA	Toluene	$1.79 (7) \cdot 10^7$	-	-	ESR	99gat1
	NBA		$1.98 (6) \cdot 10^7$	-	-	LFP	
	NBA	MeCOOEt	$2.2 (1) \cdot 10^7$	-	-	LFP	00web
	NBA	Toluene	$1.2 (4) \cdot 10^6$	-	-	ESR	99gat1
	NBA		$1.45 (3) \cdot 10^6$	-	-	LFP	
	NBA	Toluene	$2.2 (4) \cdot 10^6$	-	-	ESR	99gat1
	NBA		$2.6 (8) \cdot 10^6$	-	-	LFP	
	NBA	Toluene	$8.8 (8) \cdot 10^6$	-	-	ESR	99gat1
	NBA	MeCN	$2.4 \cdot 10^7$	-	-	LFP	98joc1
	NBA	Toluene	$1.25 (8) \cdot 10^7$	-	-	ESR	99gat1
	NBA		$1.46 (3) \cdot 10^7$	-	-	LFP	

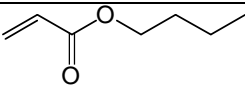
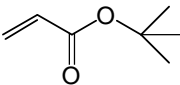
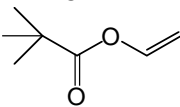
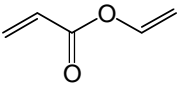
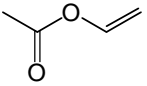
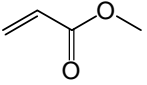
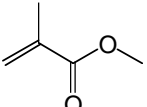
Radical	Alkene	Solvent	$k / M^{-1} s^{-1}$	$E_a / kJ mol^{-1}$	log (A)	M	Lit
	NBA	Toluene	$2.3 (1) \cdot 10^6$	-	-	ESR	99gat1
	NBA	MeCN	$1.5 \cdot 10^7$	-	-	LFP	98joc1
	NBA	Toluene	$1.1 (2) \cdot 10^7$ $1.4 (1) \cdot 10^7$	-	-	ESR LFP	99gat1
	NBA	MeCN	$1.1 \cdot 10^7$	-	-		98joc1
	NBA	Toluene	$7.7 (2) \cdot 10^6$ $8.7 (2) \cdot 10^6$	-	-	ESR LFP	99gat1
	NBA	Toluene	$8.0 (56) \cdot 10^5$ $9.2 (9) \cdot 10^5$	-	-	ESR LFP	99gat1
	NBA	MeCN	$0.4 \cdot 10^7$	-	-	LFP	98joc1
	NBA	Toluene	$3.73 (6) \cdot 10^6$	-	-	ESR LFP	99gat1
	VA	MeCOOEt	$3.3 \cdot 10^7$	-	-	LFP	00web
	VA	i-PrOH	7 500			ESR	
	MA	Hexane	$3.3 \cdot 10^7$	-	-	LFP	96slu1
	MA	Hexane	$1.1 \cdot 10^7$	-	-	LFP	96slu1
$\cdot CH_3$	MA	freon 113	$3.4 \cdot 10^5$	-	-	ESR	97zyt1
	MA	MeCN	$3.3 \cdot 10^6$	8.8	7.0	PR	84lan1

Radical	Alkene	Solvent	$k / M^{-1} s^{-1}$	$E_a / kJ mol^{-1}$	$\log (A)$	M	Lit
	MA	MeCN	$2.2 \cdot 10^5$	-	-	PR	78cit1
	MA	i-PrOH	$1.2 (1) \cdot 10^6$	-	-	ESR	00web
	MA	MeCN	$2.9 \cdot 10^5$ (342 K)	-	-	PR	84lan1
	MA	THF	$0.79 (4) \cdot 10^5$	-	-	HQ	84gie1
		CH_2Cl_2	$1.6 (1) \cdot 10^5$				
	MA	Toluene	430 (80)	26.6 (80)	7.5 (6)	ESR	95wal
	MA	Toluene	800 (160)	-	-	ESR	95wal
	MA	i-PrOH	$3.5 \cdot 10^7$	-	-	LFP	97mar
	MA	MeOH	$7.1 (6) \cdot 10^5$	14.4 (8)	8.7 (4)	ESR	95wu2
	MA	Isobutyl acid methyl ester	1 150 (70)	19.8 (12)	6.6 (3)	ESR	00zyt1
	MA	Toluene	367 (94) (315 K)	-	-	ESR	93heb
	MA	MeCN	$4.9 (2) \cdot 10^5$	-	-	ESR	95wu
	MA	MeCN	$1.1 (1) \cdot 10^5$ (278 K)	-	-	ESR	95wu1
	MA	propylen-oxid	$1.12 (3) \cdot 10^5$	21.2 (5)	8.7 (4)	ESR	98web
	MA	Freon 113	$1.25 (5) \cdot 10^5$	19.3	8.5	ESR	00zyt1
	MA	Cyclo hexane	$4.3 \cdot 10^5$	-	-	LFP	79ito1
	MMA	Hexane	$1.1 \cdot 10^8$	-	-	LFP	96slu1
	MMA	benzene	$1.6 \cdot 10^7$ (20 C)	-	-	LFP	93kaj1

Radical	Alkene	Solvent	$k / \text{M}^{-1} \text{s}^{-1}$	$E_a / \text{kJ mol}^{-1}$	$\log (A)$	M	Lit
	MMA	Hexane	$2.3 \cdot 10^7$	-	-	LFP	96slu1
$\cdot\text{CH}_3$	MMA	freon 113	$4.9 \cdot 10^5$	18.2 (10)	8.9 (2)	ESR	97zyt1
$\cdot\text{CH}_3$	MMA	MMA	$1.0 \cdot 10^6$ (333 K)	-	-	PR	97nak
$\cdot\text{CH}_2\text{H}_3$	MMA	MMA	$0.86 \cdot 10^6$ (333 K)	-	-	PR	97nak
	MMA	MMA	$1.0 \cdot 10^6$ (333 K)	-	-	PR	97nak
	MMA	MeCN	$4.7 \cdot 10^5$ (333 K)	-	-	PR	99nak
	MMA	i-PrOH	$8.0 (3) \cdot 10^5$	-	-	ESR	00web
	MMA	MMA	$2.2 \cdot 10^6$ (333 K)	-	-	PR	97nak
	MMA	MMA	$9.5 \cdot 10^5$ (333 K)	-	-	PR	97nak
	MMA	MMA	$1.1 \cdot 10^6$ (333 K)	-	-	PR	97nak
	MMA	MMA	$2.6 \cdot 10^5$ (333 K)	-	-	PR	97nak
	MMA	Freon 113	$1.8 (3) \cdot 10^8$	-	-	LFP	83sca1
	MMA	Toluene	2 100 (320)	37.5 (30)	8.1 (3)	ESR	95wal
	MMA	Toluene	2 700 (570)	29.9 (80)	8.7 (5)	ESR	95wal
	MMA	i-PrOH	$1.5 \cdot 10^7$	-	-	LFP	97mar
	MMA	MeOH	$6.0 (4) \cdot 10^5$	17.8 (24)	8.2 (4)	ESR	95wu2
	MMA	Isobutyl-acid methyl ester	3 710 (250)	22.4	7.5	ESR	00zyt1
	MMA	Toluene	1 590 (160) (315 K)	-	-	ESR	93heb

Radical	Alkene	Solvent	$k / M^{-1} s^{-1}$	$E_a / kJ mol^{-1}$	log (A)	M	Lit
	MMA	MeCN	$1.3 (2) \cdot 10^6$	-	-	ESR	95wu1
	MMA	MeCN	$2.4 (1) \cdot 10^5$ (278 K)	-	-	ESR	95wu1
	MMA	propylen- oxid	$1.06 (4) \cdot 10^6$	14.8 (11)	8.9 (1)	ESR	98web
	MMA	Freon 113	$1.2 (6) \cdot 10^6$	13.8	8.5	ESR	00zyt1
$\cdot C(CF_3)_3$	MMA	Freon 113	$3.8 \cdot 10^6$	-	-	LFP	96avi1
$\cdot CF_2CF_2CF_3$	MMA	Freon 113	$1.9 (1) \cdot 10^7$	-	-	LFP	94avi1
	MMA	MeCN	$2.4 (1) \cdot 10^5$	-	-	ESR	95wu1
$n\text{-Bu}_3\text{Ge}\cdot$	MMA	<i>t</i> -BuOO <i>t</i> -Bu	$1.2 (2) \cdot 10^8$	-	-	LFP	84ing1
$n\text{-Bu}_3\text{Sn}\cdot$	MMA	<i>t</i> -BuOO <i>t</i> -Bu	$1.2 (1) \cdot 10^8$	-	-	LFP	84ing1
$\text{Et}_3\text{Si}\cdot$	MMA	Cyclo propane	$4.6 (8) \cdot 10^5$	-	-	LFP	83cha
$\text{PhSe}\cdot$	MMA	CCl_4	$4.2 \cdot 10^4$	-	-	LFP	83ito1
	MMA	Cyclo hexane	$5.4 \cdot 10^6$	-	-	LFP	79ito1
$\cdot\text{CH}_3$	VAc	freon 113	$1.4 \cdot 10^4$	23.9 (15)	8.4 (4)	ESR	97zyt1
$\text{PhSe}\cdot$	Vac	CCl_4	$\sim 10^3$	-	-	LFP	83ito1
	Vac	Cyclo hexane	$4.6 \cdot 10^4$	-	-	LFP	83ito1
	VAc	benzene	$2.7 (1) \cdot 10^6$	-	-	LFP	93kaj1
	VP	MeCOOEt	$2.0 (1) \cdot 10^6$	-	-	LFP	00web
	VP	benzene	$2.5 (1) \cdot 10^6$	-	-	LFP	93kaj1

Alkenes

	Name	Structure
NBA	n-butyl acrylate	
TBA	tert-butyl acrylate	
VP	Vinyl pivalate	
VA	Vinyl acrylate	
Vac	Vinyl acetate	
MA	Methyl acrylate	
MMA	Methyl methacrylate	

Methods

ESR	electron spin resonance
HQ	mercury methode
LFP	laser flash photolysis
PR	product raitio

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