Reactant	Reaction class	Product	E_b kcal mol^{-1}	E_{react} kcal mol^{-1}	k (300 K) s^{-1}
$HMVKAO_2$	$-$OH 1,5-H-shift	$CH_3-C(=O)-CH(O^\bullet)-CH_2OOH$	21.6	20.4	5.0×10^{-4}
	$\alpha-$OH 1,4-H-shift	$CH_3-C(=O)-C^\bullet(OH)-CH_2OOH$	24.7	-6.2	3.3×10^{-3}
	$-CH_3$ 1,6-H-shift	$C^\bullet H_2-C(=O)-CH(OH)-CH_2OOH$	23.1	10.2	5.9×10^{-4}
$HMVKBO_2$	$-$OH 1,5-H-shift	$CH_3-C(=O)-CH(OOH)-CH_2O^\bullet$	22.5	20.6	8.8×10^{-5} [a]
	$\alpha-$OH 1,4-H-shift	$CH_3-C(=O)-CH(OOH)-C^\bullet HOH$	25.1	6.5	3.2×10^{-5}
	$-CH_3$ 1,6-H-shift	$C^\bullet H_2-C(=O)-CH(OOH)-CH_2OH$	27.4	10.0	3.8×10^{-5}
	HO_2 elimination	$CH_3-C(=O)-CH=CHOH + HO_2$	30.0	-1.5	6.1×10^{-10}