
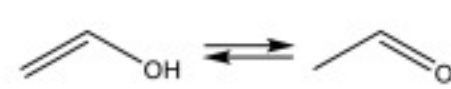
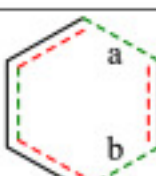
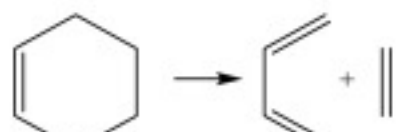

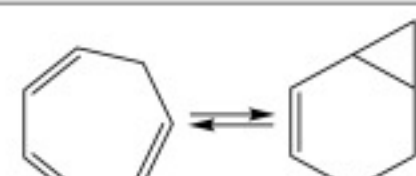

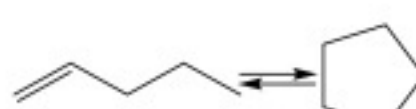
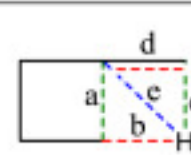
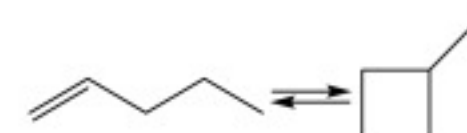
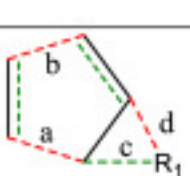
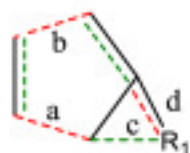
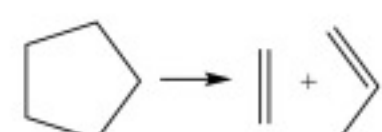
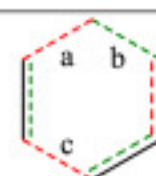
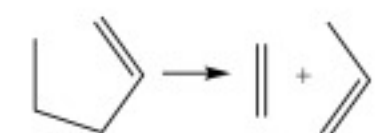

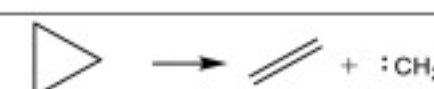


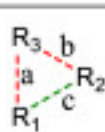


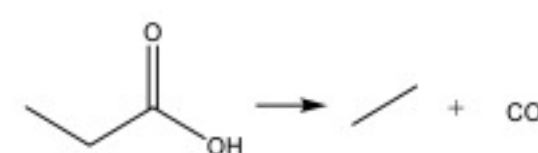

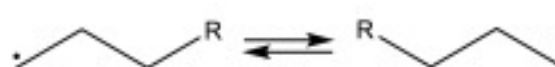
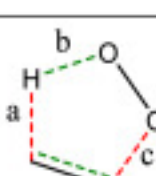
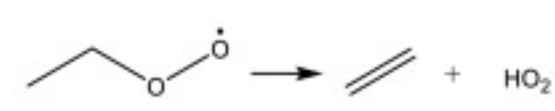
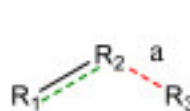

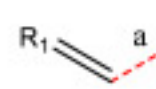
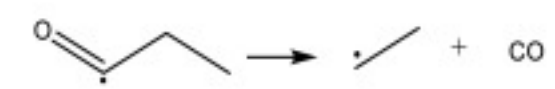
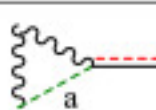
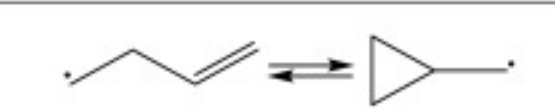

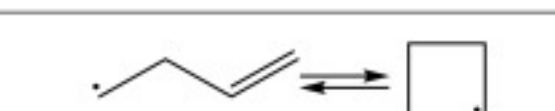
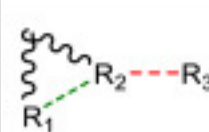
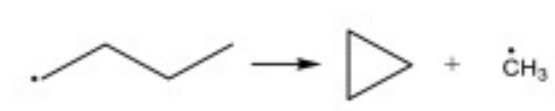



Reaction	Template geometries	Example
H migration in closed-shell molecules intra_H_migration_suprafacial ketoenol cpd_H_migration	 <div> R1=C: a = 1.35 R2=C: b = 1.35 R1=O: a = 1.20 R2=O: b = 1.20 </div>	
Reverse Diels-Alder Diels_alder_addition	 <div> a = 2.2 b = 2.2 </div>	
Intra Diels-Alder Intra_Diels_alder_R	 <div> a = 1.8 b = 2.2 </div>	
Endocyclic closed-shell cyclization Intra_RH_Add_Endocyclic_F Intra_RH_Add_Endocyclic_R	 <div> a = 2.0 b = 1.3 c = 1.3 d = 1.4 e = 1.8 </div>	
Exocyclic closed-shell cyclization Intra_RH_Add_Exocyclic_F Intra_RH_Add_Exocyclic_R	 <div> a = 2.0 b = 1.9 c = 1.4 d = 1.4 e = 1.3 </div>	
Generalized Korcek step 2 reaction Korcek_step2	 <div> a = b = 2.0 R1 = H: c = d = 1.35 R1 = C, O: c = d = 1.8 </div>  <div> a = b = 2.0 c = 1.8 d not specified </div>	
Retro-ene reaction Retro_Ene	 <div> a = 1.35 b = 1.35 c = 2.0 </div>	
Reverse 1,2 cycloaddition r12_cycloaddition	 <div> a = b = scan </div>	
Reverse 2,2 cycloaddition r22_cycloaddition	 <div> a = 2.2 b = 2.2 </div>	
Reverse 1,2 R insertion r12_insertion_R	 <div> Rn = C a = 1.67 b = 2.2 c = 1.9 R1 = H a = 1.7 b = 1.09 c = 2.2 R1 = O a = 1.67 b = 1.8 c = 1.9 </div>	
Reverse 1,3 insertion r13_insertion_CO2 r13_insertion_ROR r13_insertion_RSR	 <div> a = 2.0 R1 = O: b = 1.3 R1 = C: b = 1.45 R2 = H: c = d = 1.3 R2 = C, O: c = d = 2.0 </div>	
R migration in radicals intra_R_migration intra_OH_migration intra_H_migration l2_shift_S_F l2_shift_S_R	 <div> R1=C: a = 1.35 R2=C: b = 1.35 R1=O: a = 1.20 R2=O: b = 1.20 </div>	
HO2 elimination HO2_Elimination_from_PeroxyRadical	 <div> a = 1.3 b = 1.3 c = 2.0 </div>	
Radical β-scission R_Addition_MultipleBond	 <div> R1-R2-R3 C-C-C: a = 2.20 C-C-H: a = 1.79 C-C-O: a = 2.04 O-C-C: a = 2.12 O-C-H: a = 1.84 O-C-O: a = 2.04 C-O-C: a = 2.04 C-O-H: a = 1.42 C-O-O: a = 2.04 O-O-C: a = 2.04 </div>	
Radical α-scission R_Addition_COM3_R R_Addition_CSm3_R	 <div> a = 2.2 </div>	
Exocyclic intramolecular radical addition Intra_R_Add_ExoTetCyclic_F Intra_R_Add_Exocyclic_F	 <div> a = 2.2 </div>	
Endocyclic intramolecular radical addition Intra_R_Add_Endocyclic_F	 <div> a = 2.2 </div>	
Cyclization-elimination Cyclic_Ether_Formation	 <div> Ri=C, Rj=C: Ri-Rj = 1.80 Ri=C, Rj=O: Ri-Rj = 1.68 Ri=C, Rj=H: Ri-Rj = 1.31 Ri=O, Rj=O: Ri-Rj = 1.78 Ri=O, Rj=H: Ri-Rj = 1.14 </div>	
Homolytic scission (note that this reaction type does not include a saddle point search, KinBot only lists the energies of the products. Invoked with the homolytic_scissions keyword)	 <div> R1 - - - R2 </div>	