

Addition Reactions – Summary

	RXN	Regiochem.	Stereochem.	conditions
1	HBr	Markovnikov	random	HX
2	HBr, ROOR	Anti-Markovnikov	random	HBr, ROOR hv
3	Br ₂ (Cl ₂)	n/a	anti	X ₂ , CCl ₄
4	Br ₂ -H ₂ O	Markovnikov	anti	NBS, DMSO-H ₂ O
5	H ₂ /Pt-C	n/a	syn	H ₂ /Pt-C 60psi
6	Oxymercuration	Markovnikov	random	1) Hg(OAc) ₂ , H ₂ O-THF 2) NaBH ₄
7	Hydroboration	Anti-Markovnikov	syn	1) BH ₃ -THF 2) H ₂ O ₂ , NaOH
8	Carbene	n/a	syn	1) CH ₂ I ₂ , Zn(Cu)
9	Epoxidation	n/a	syn	RCO ₃ H, CH ₂ Cl ₂
10	Ozonolysis	n/a	n/a	1) O ₃ , CH ₂ Cl ₂ 2) DMS