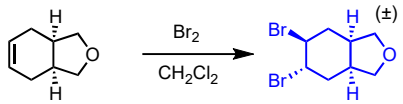
ELECTROPHILIC ADDITION TO C=C

Fill in the blanks. And, provide mechanisms for the following transformations, all of which involve electrophilic addition to an alkene. Do this on a separate piece of paper of course.

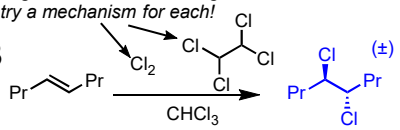
A



rxn from JOC, 2009, 74, 88

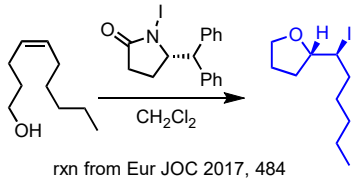
B

both reagents do the same thing here, try a mechanism for each!



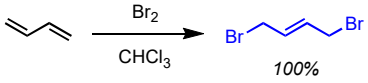
rxn from Nature Chem. 2015, 7, 146

C



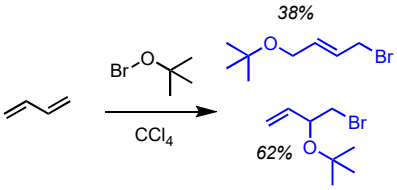
rxn from Eur JOC 2017, 484

D



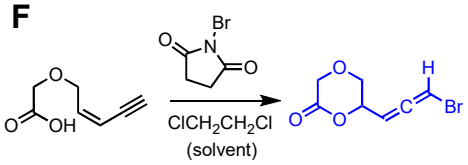
rxn from JACS, 2014, 136,15403

E



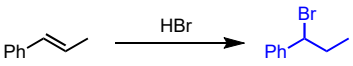
rxn from J Fluor Chem, 2003, 123, 171

F



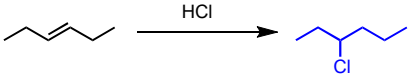
rxn from JACS, 2010 132 3664

G



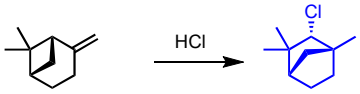
rxn from CEJ 2017 23 12739

H



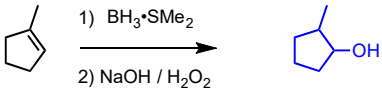
rxn from JACS 1939, 61 940

I



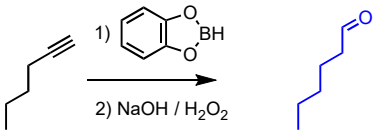
rxn from JOC 1987, 52, 462

J

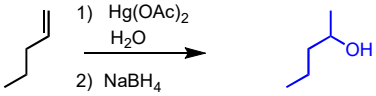


rxn from JOC, 1974, 39, 1437

K

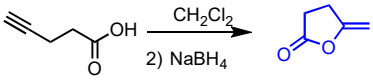


rxn from Synth Comm, 1995 25 1957



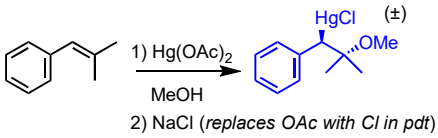
rxn from JOC 1970, 35, 1844

M



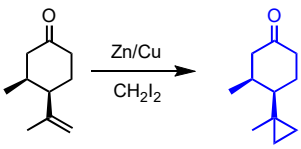
rxn from Tet, 2015, 71, 8637

N



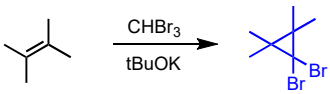
rxn from Can. J. Chem. 1952, 30, 541

O



JACS 1980 102 2737

P



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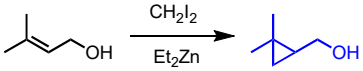
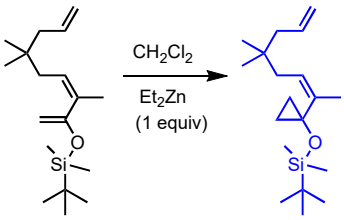


rxn from JOC 2019 84 3780

R