

Organometallics Chemistry

(CHEM-753)

Online Lectures (OrganoCu+Zn)

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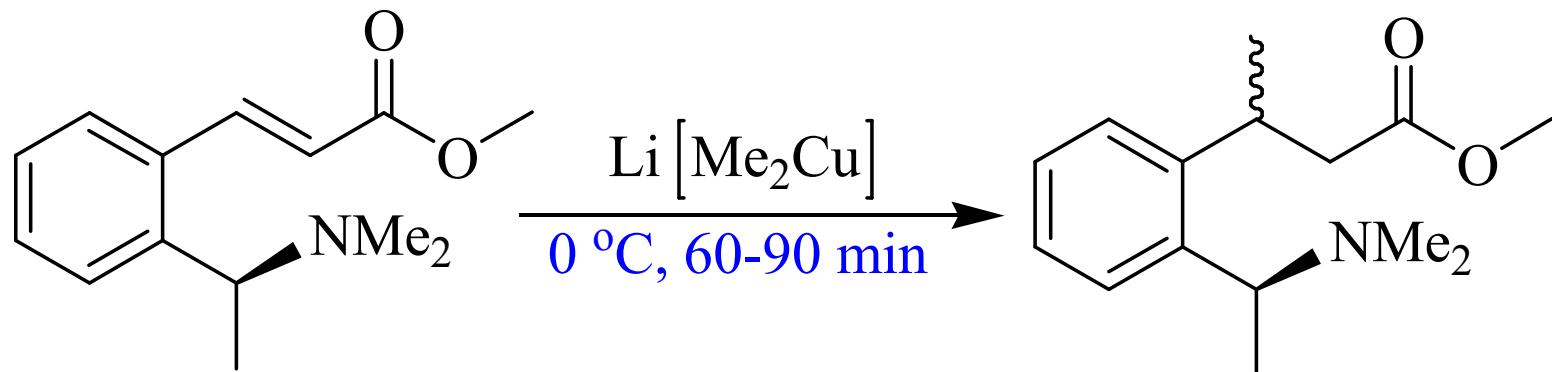
Periodic Table

s-Block metals		d-Block metals												p-Block Elements	
Group-I Group-II														XIII XIV	
H														B	C
Li	Be													Al	Si
Na	Mg	III	IV	V	VI	VII	VIII	IX	X	XI	XII				
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge		
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn		
Cs	Ba	La	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb		
Fr	Ra														

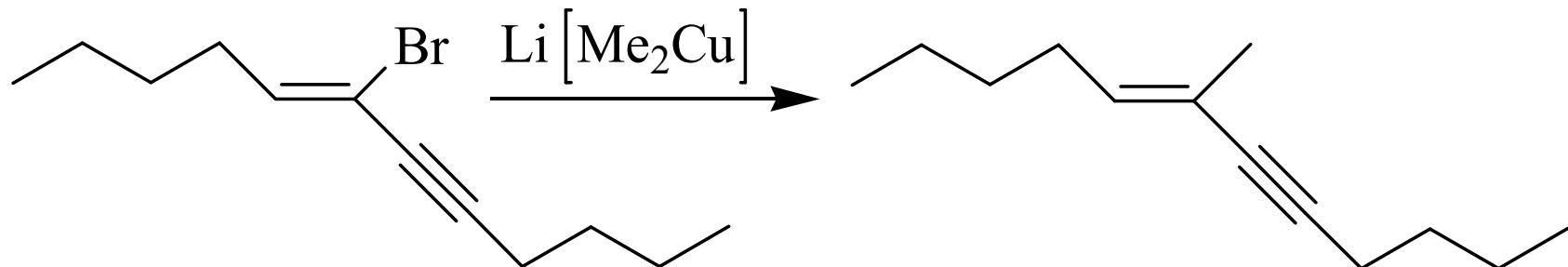
History of Gilman

- Henry Gilman (1893-1986) was the son of a tailor.
- He did his PhD in Chemistry in 1918 at Harvard University (USA).
- He did his Post-Doc under the supervision of Prof Victor Grignard at Germany in 1919 and moved to Iowa State University (USA) as Assistant Professor.
- He was promoted to Professor rank in 1923 by same University.
- Then he moved to DuPont Chemical Industry in 1929.
- He and Dr M S Kharash (another Post-Doc student of Prof Victor Grignard) founded *Journal of Organometallic Chemistry (JOC)* in 1936.
- He suffered with glaucoma (blind by one eye) and lost the vision by other eye as well in 1947 (54 years of age).
- He published 1020 research articles out of which 584 in the state of blindness.

Preparation & Applications

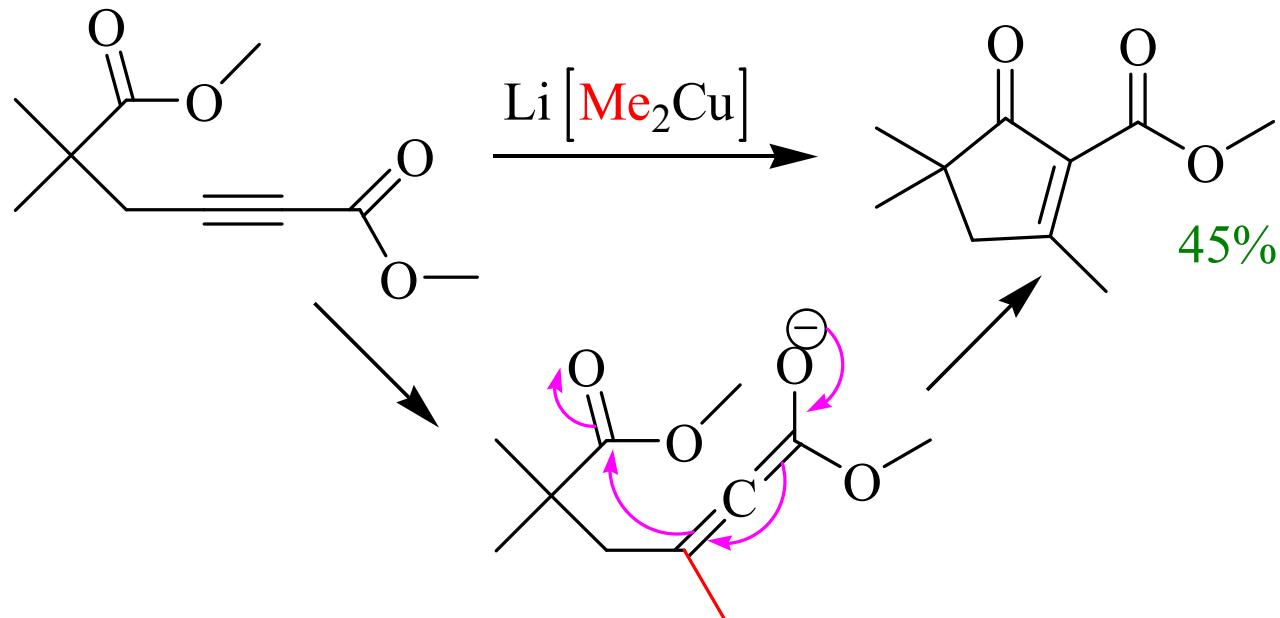
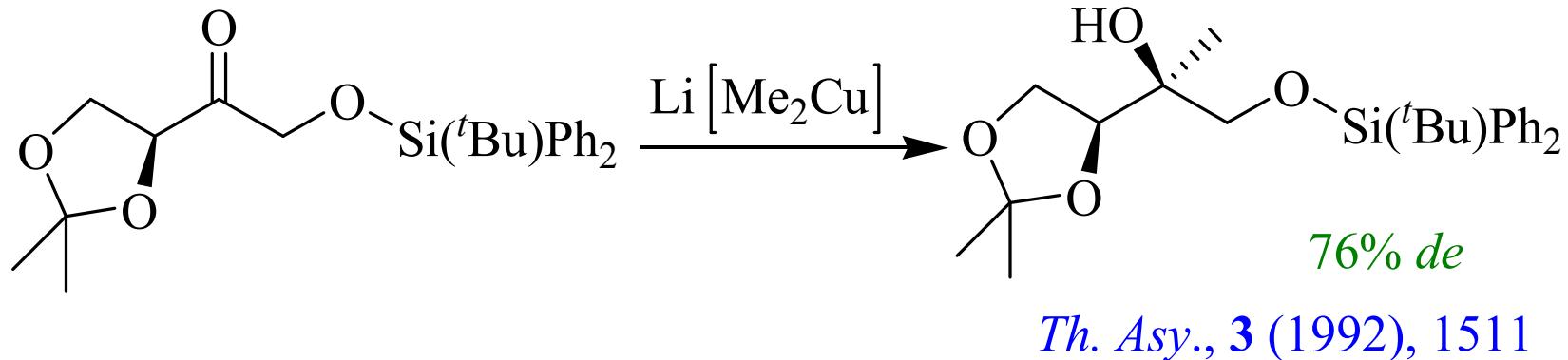


Th., 47 (1991), 4739

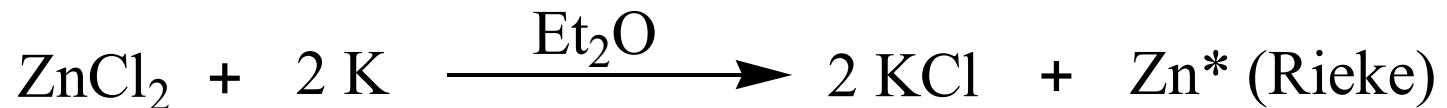
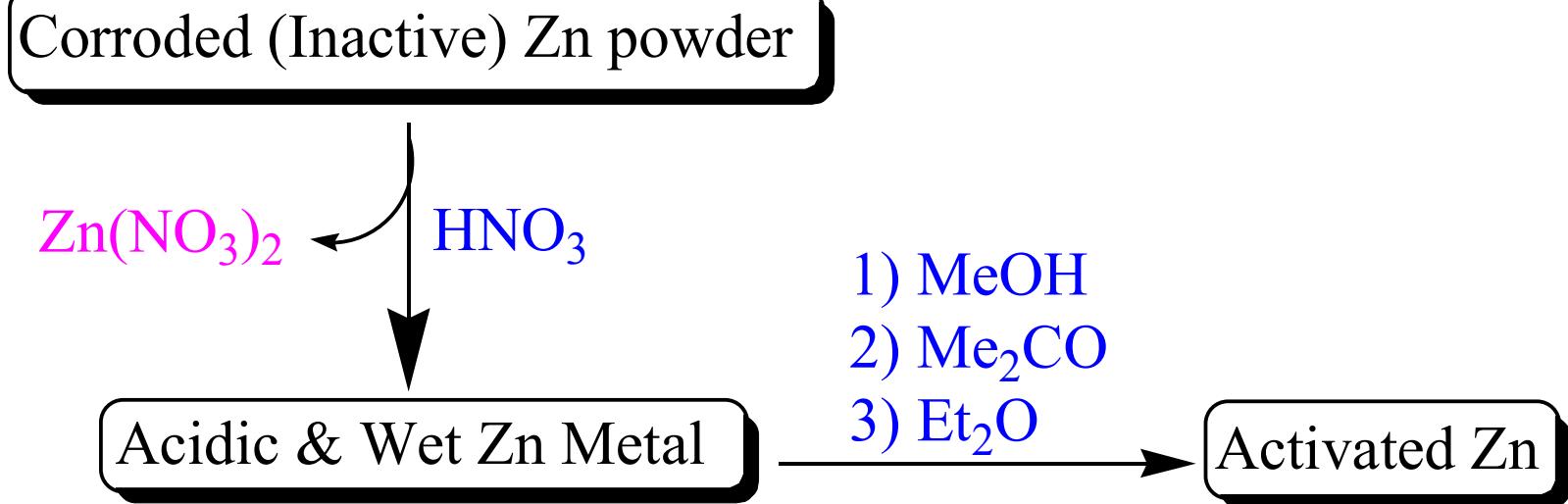


JOC., 53 (1988), 1839

Applications

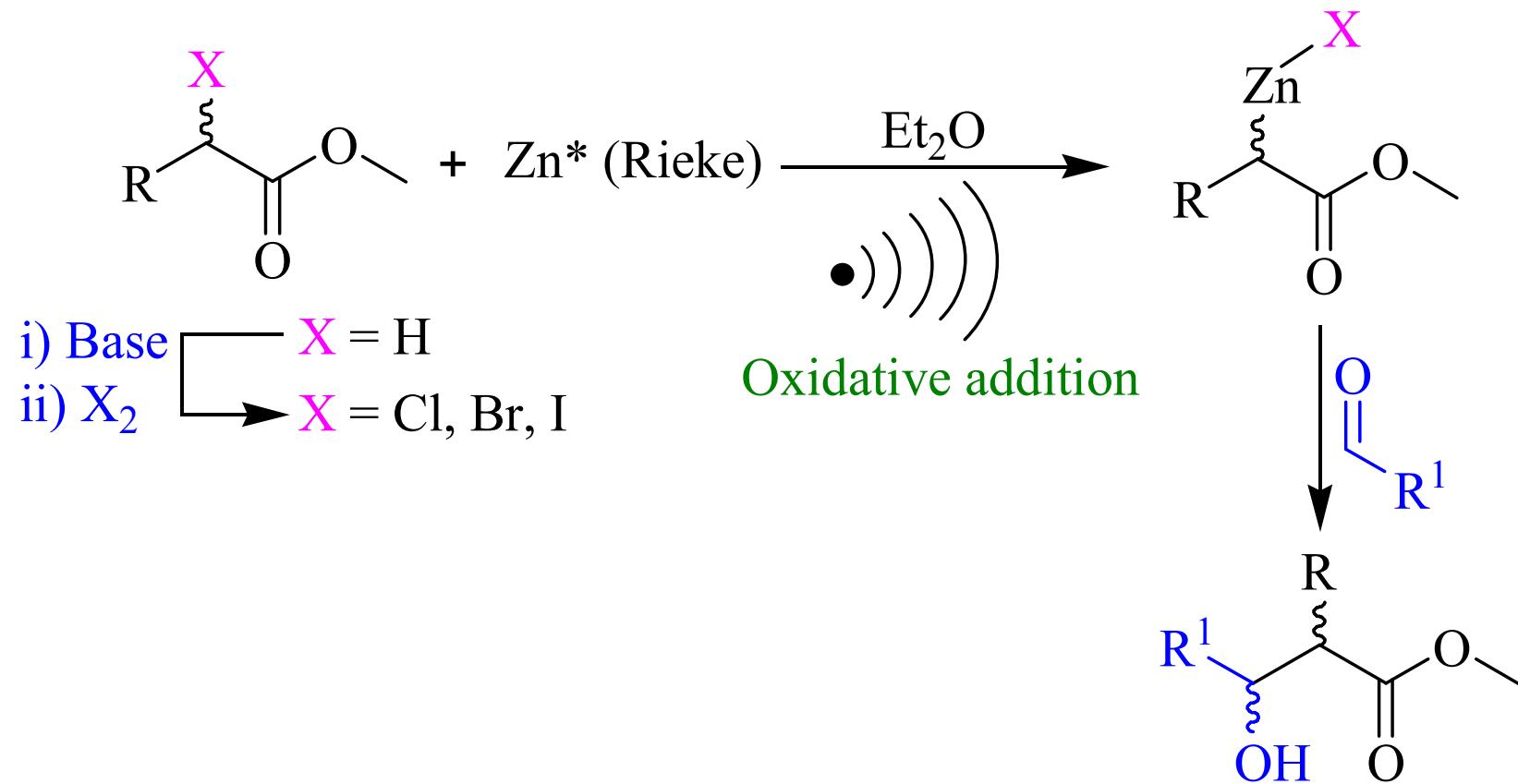


Activation of Zn

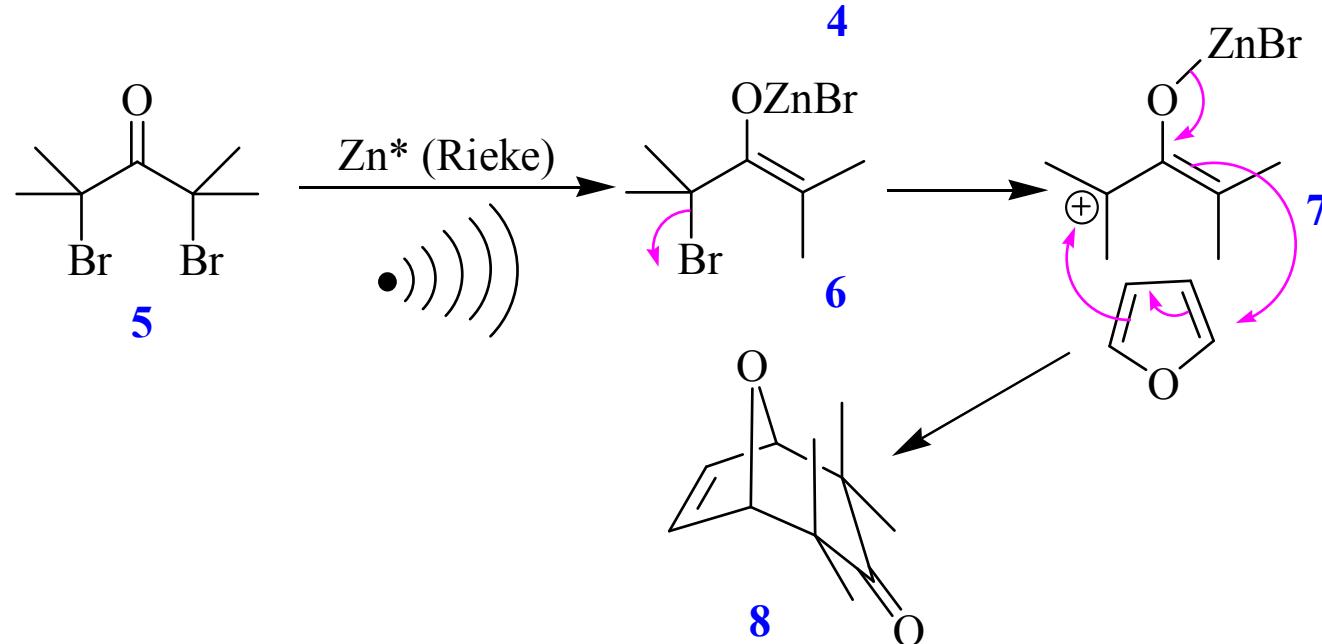
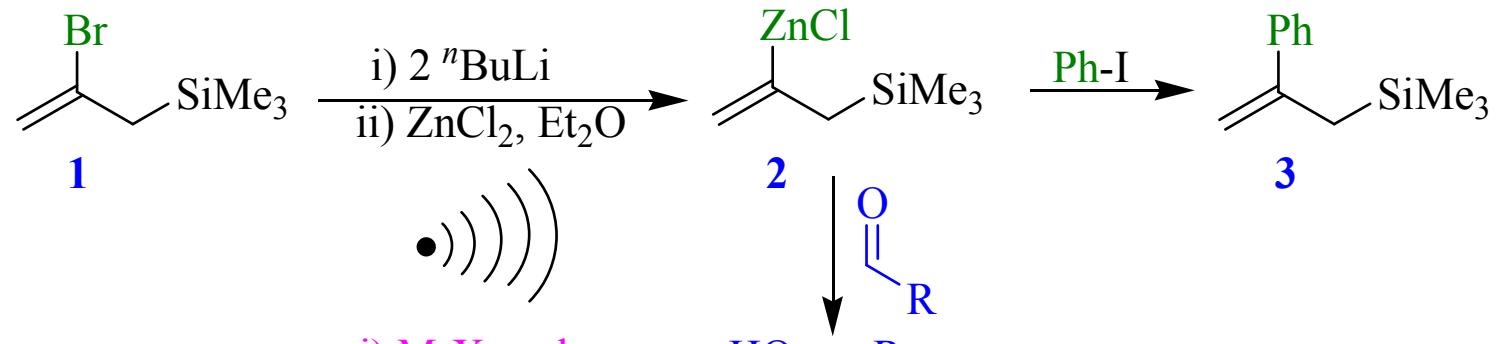


Aldrich Acta, 33, 52, 2000

Reformatsky Reaction



Applications



Applications

