

CH-335 - VII - Composés carbocycliques

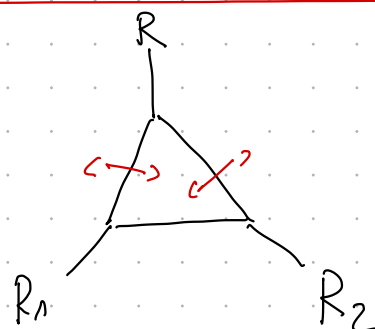
S. Gerber

Spring 2025

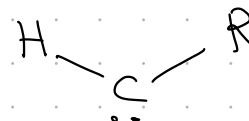


I - Cycle à 3 chaînons

/1



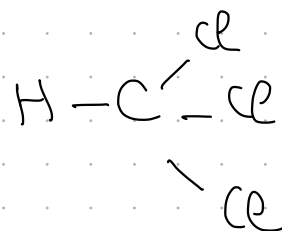
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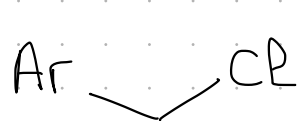
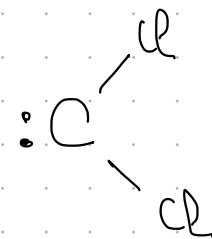
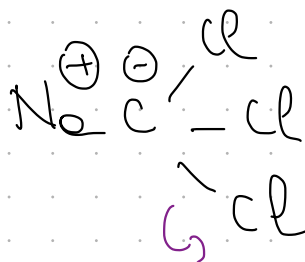
• carbènes
• carbénoides

Préparation des carbènes

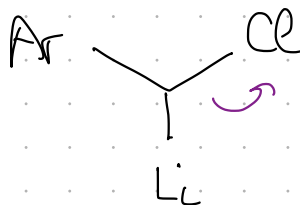
• Elimination - α



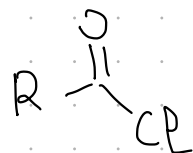
NaOH



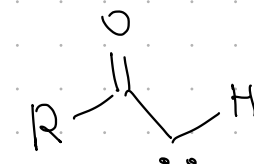
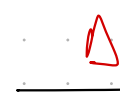
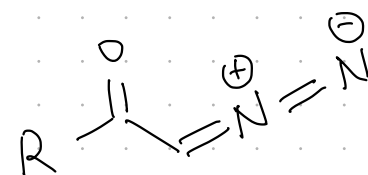
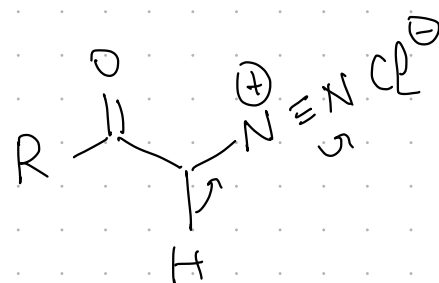
LDA



• Acylcarbene

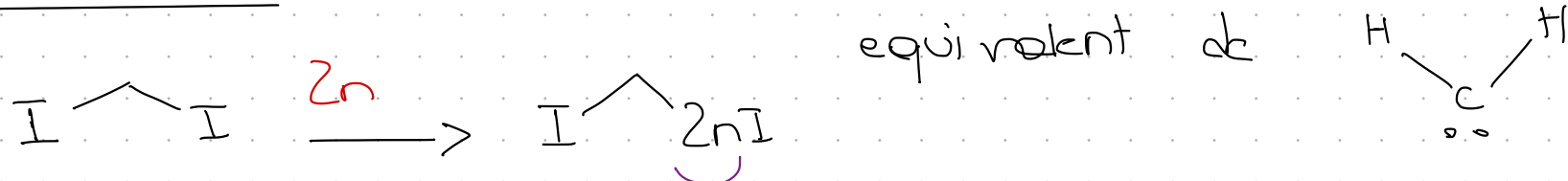


CH2N2

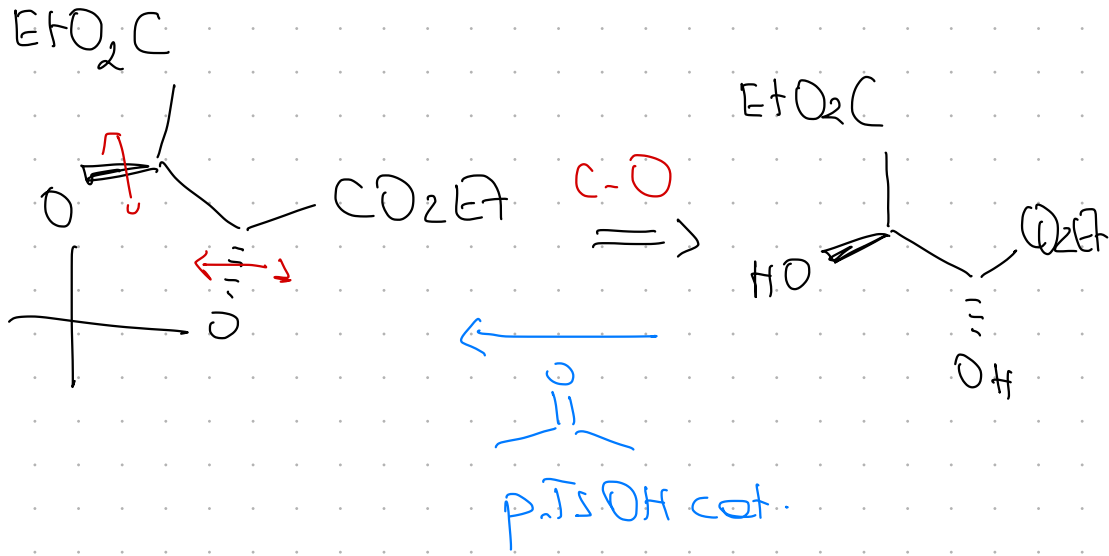
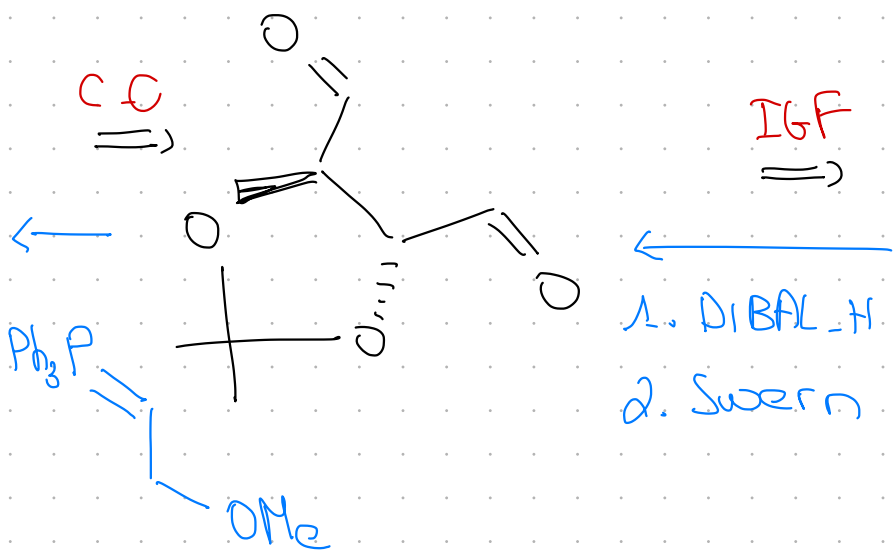
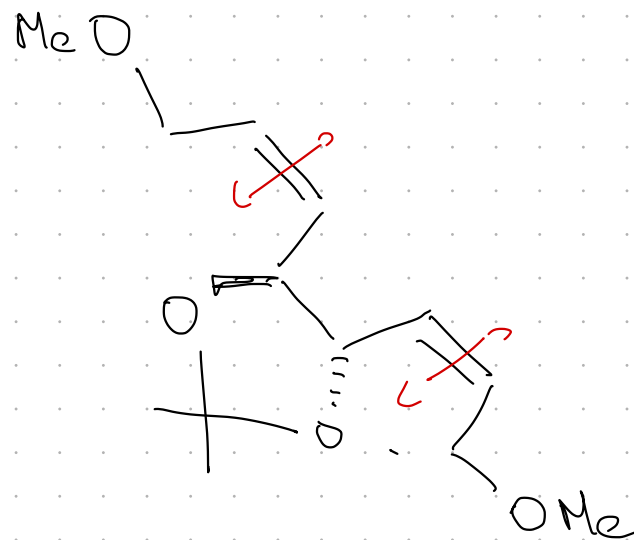
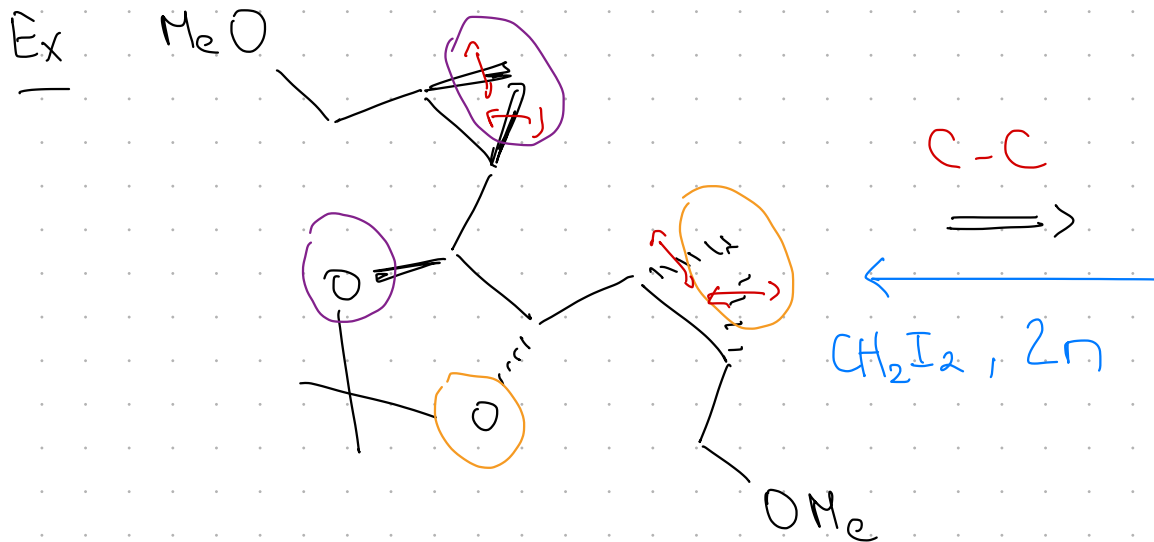


Carbénoides

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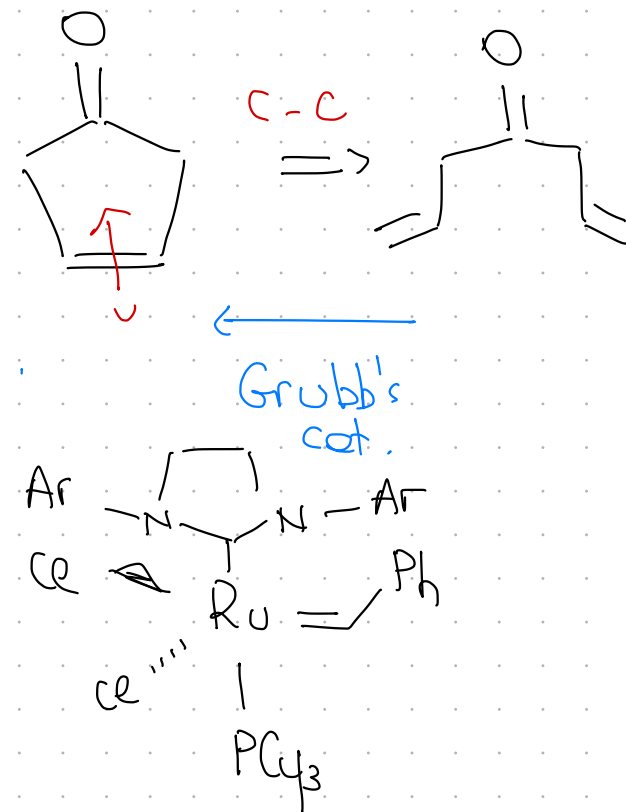
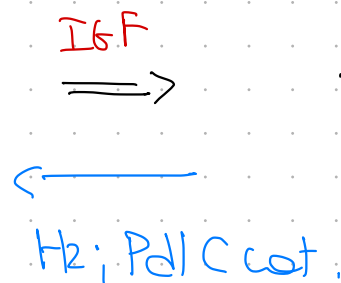
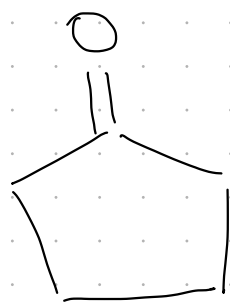
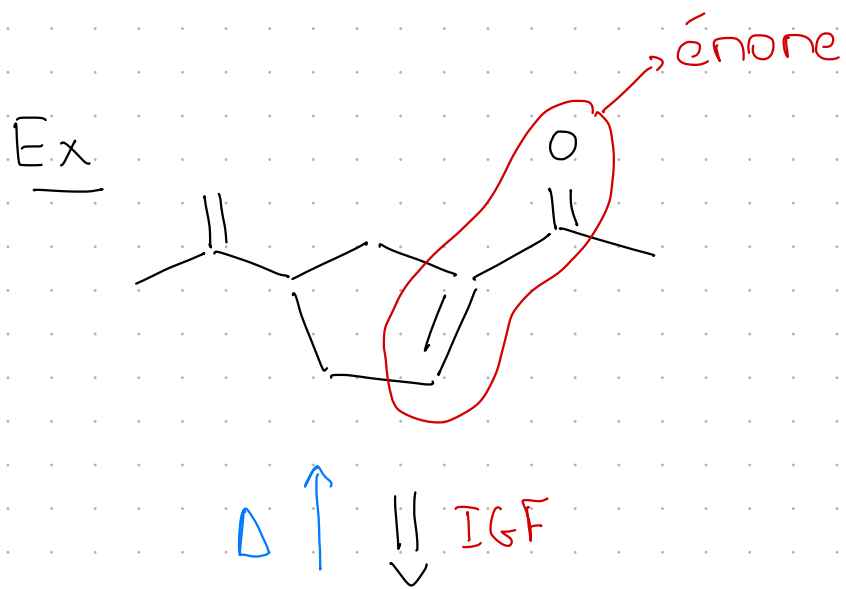
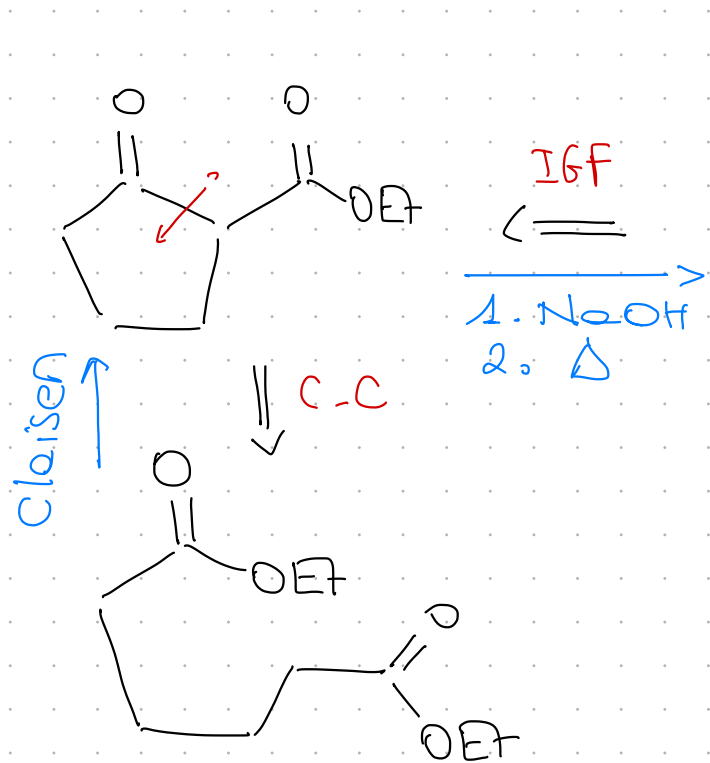


L, chélation d'atomes porteurs de doublets non liants

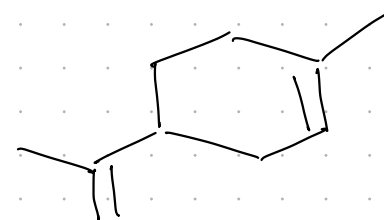


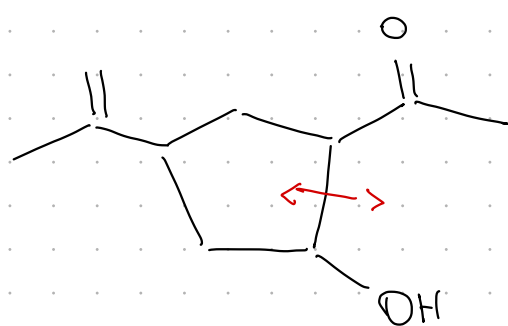
II - Cycles & Schémas

3

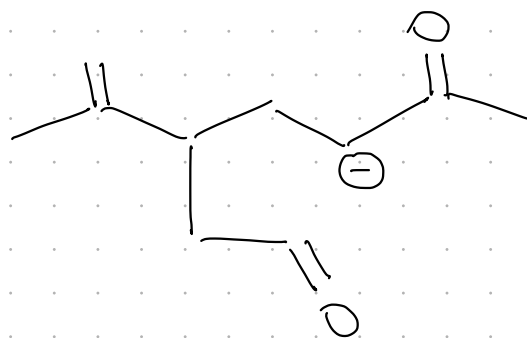


produit de départ



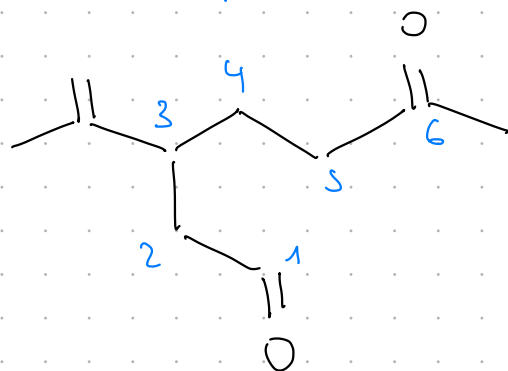


C-C
=>



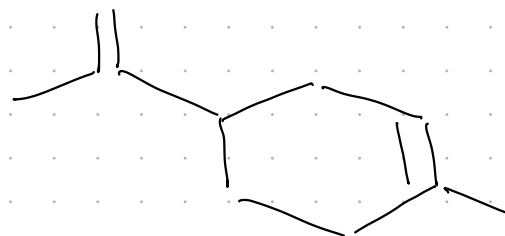
IGF
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↑ NaOH



reconnection

=>



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1. OsO₄ cat.; NMO

2. Pb(OAc)₄ ou

1. mCPBA, 0°C
2. NaOH
3. NaIO₄

