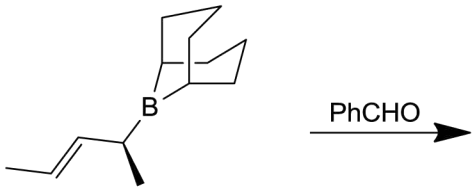
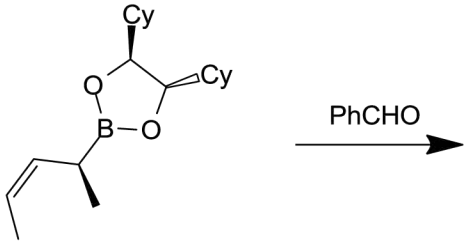
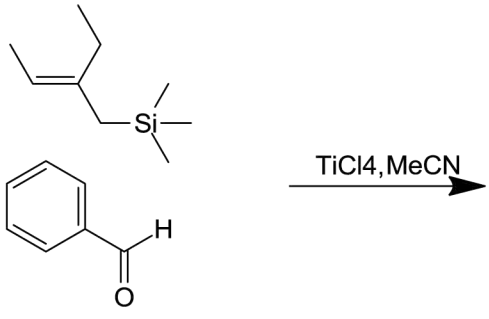
Seminar zur Vorlesung Organische Chemie 5. FS

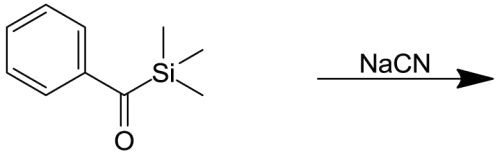
Übungsblatt 12

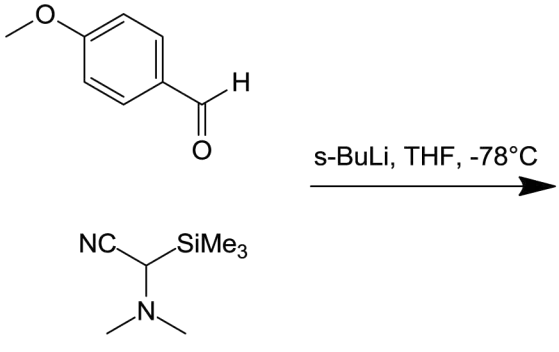
1. Vervollständigen folgende Reaktionen











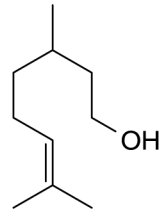
2. Zeigen Sie den grundlegenden Mechanismus zur Kreuzmetathese und erklären Sie folgenden Befund:

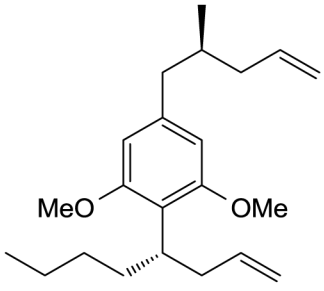
Cross metathesis →

R1 : R2	CM-product
1:1	50%
2:1	66%
4:1	80%
10:1	91%
20:1	95%

3. Vervollständigen Sie die folgenden Reaktionen. Geben Sie die Strukturen der Katalysatoren an sowie ihre Vor- und Nachteile.

Grubbs-Hoveyda catalyst →

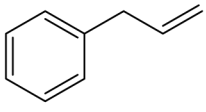




Schrock catalyst →

head to tail cyclisation
55%

?

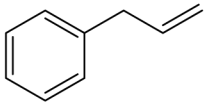


+

Grubbs1 →

CH_2Cl_2, 40 °C, 12 h

E : Z = ?



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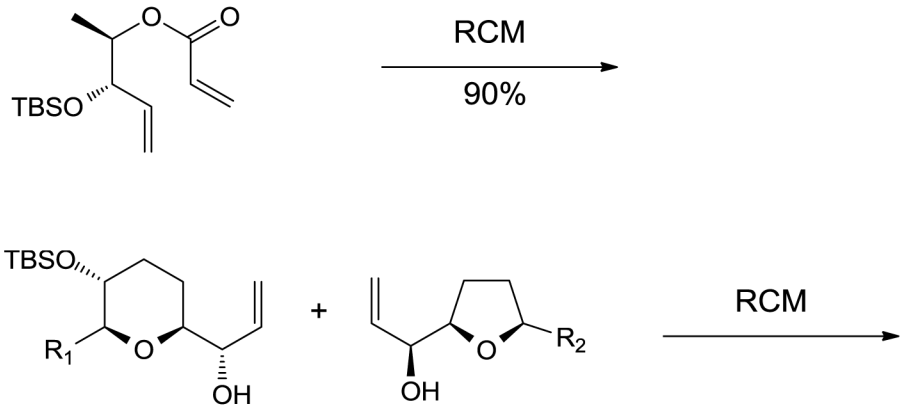
Grubbs2 →

CH_2Cl_2, 40 °C, 12 h

E : Z = ?


TBSO
O
O
RCM
90%
TBSO
R1
O
OH
+
OH
O
R2
RCM