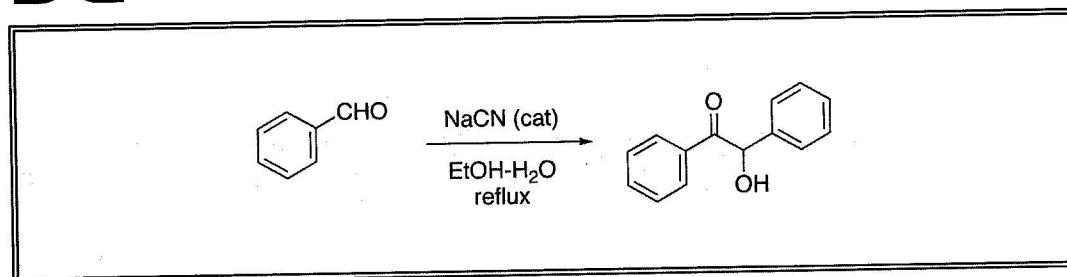
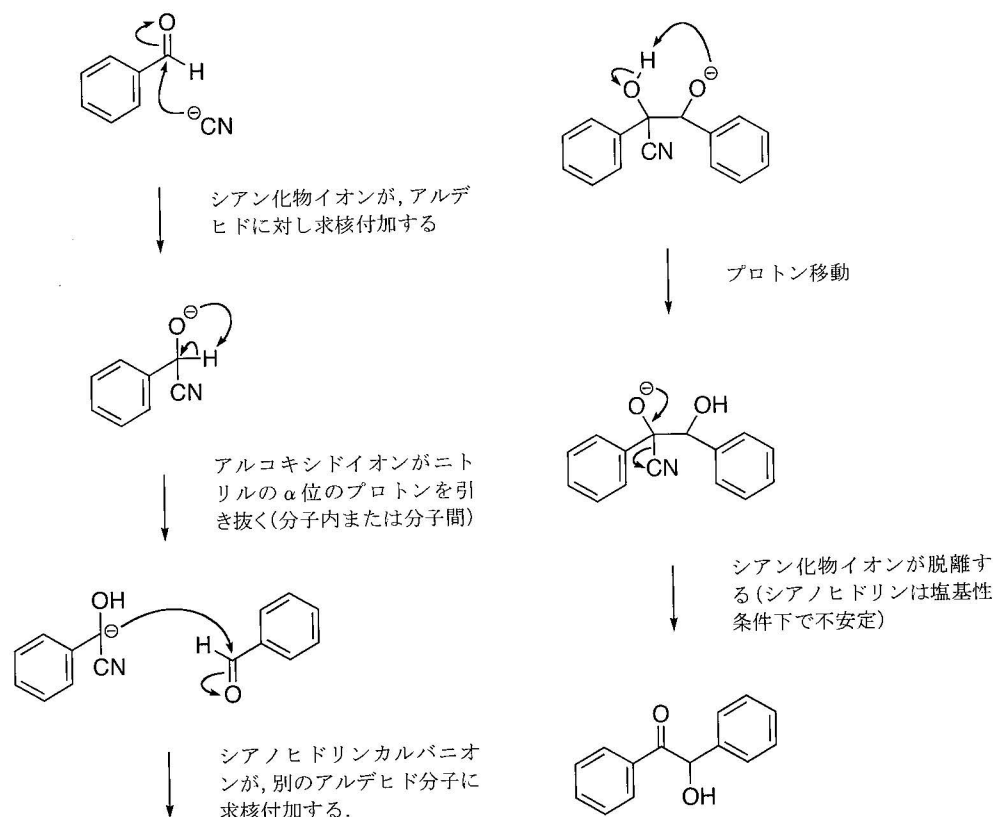


例題 Provide a reasonable arrow-pushing mechanism for the following reaction.



解答

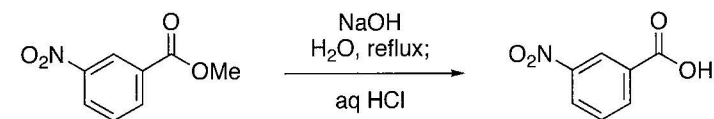
ベンゾイン縮合 (benzoin condensation)



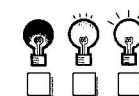
Adams, R.; Marvel, C. S. *Org. Synth., Coll. Vol. I* 1941, 94.

問題 Provide reasonable arrow-pushing mechanisms for the following reactions.

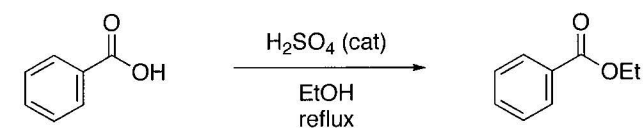
A001



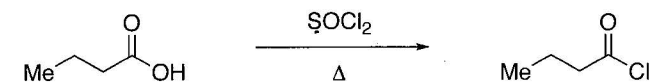
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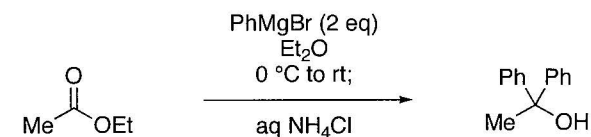
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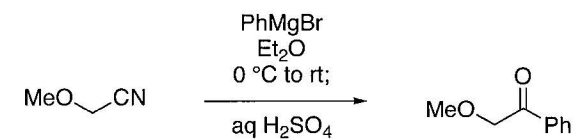
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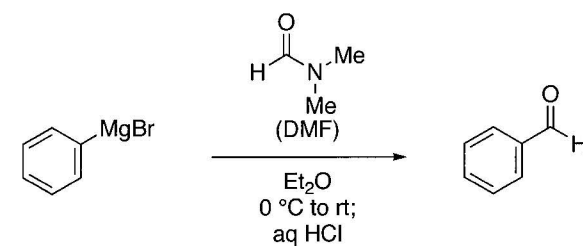
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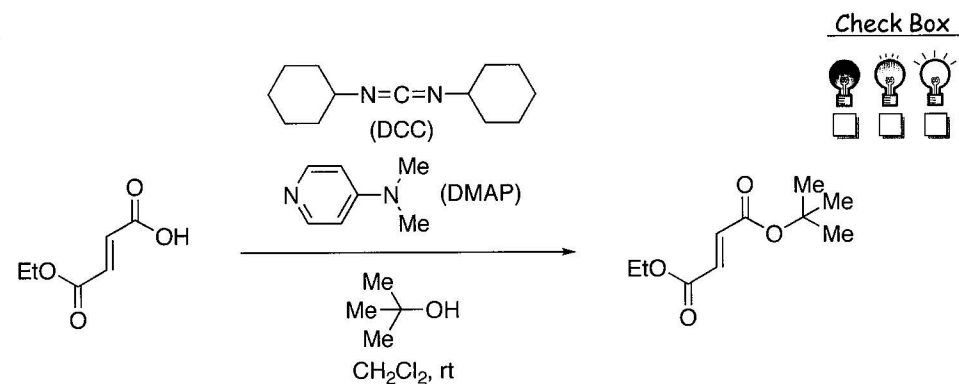
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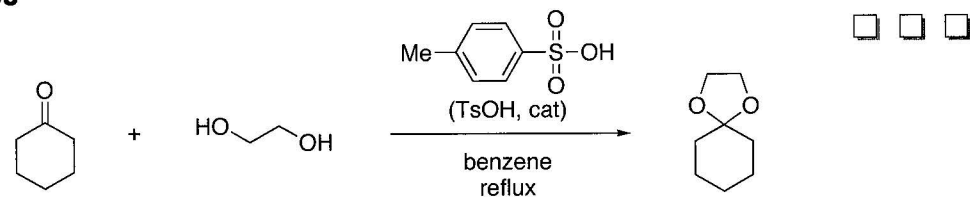
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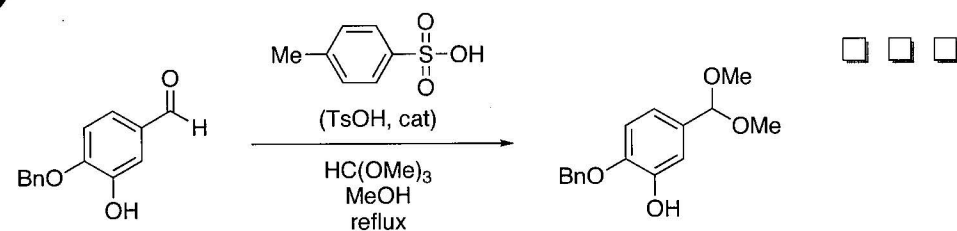
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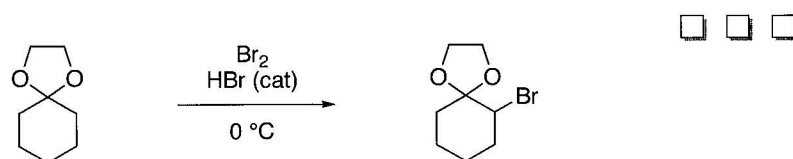
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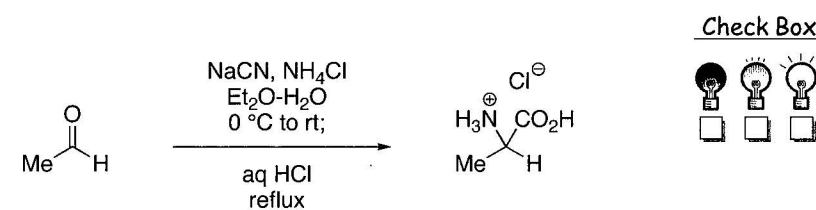
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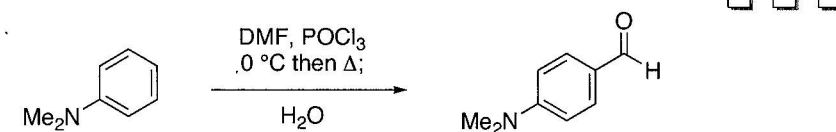
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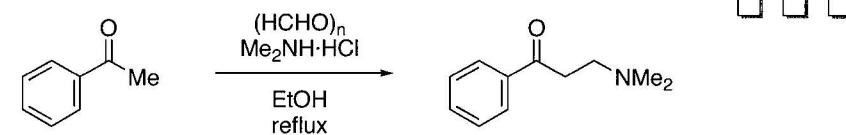
A011



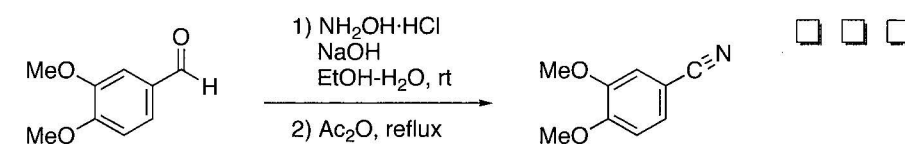
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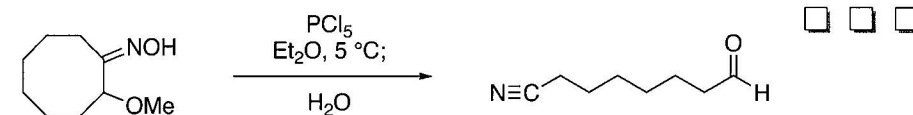
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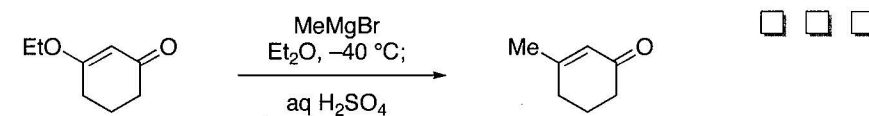
A014



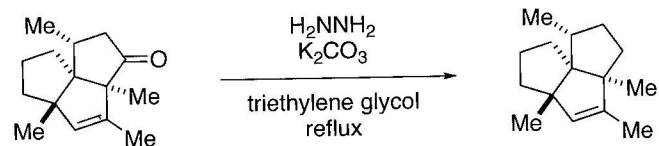
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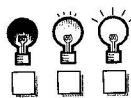
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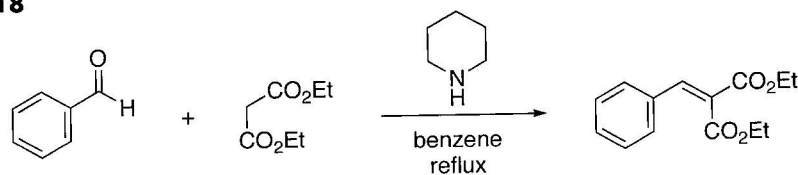
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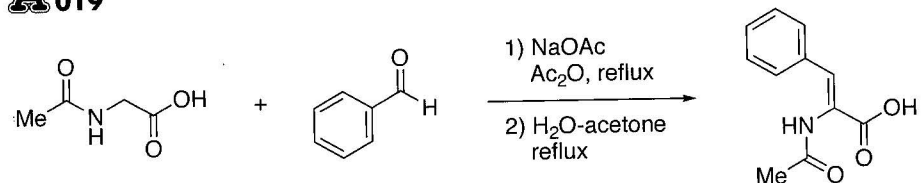
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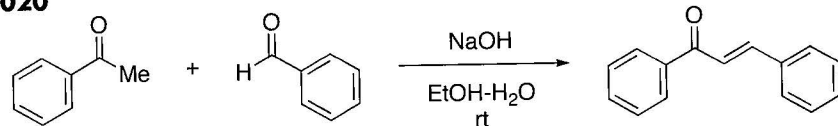
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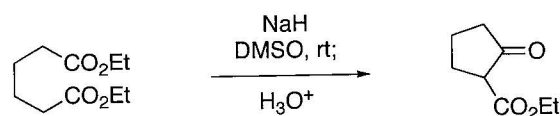
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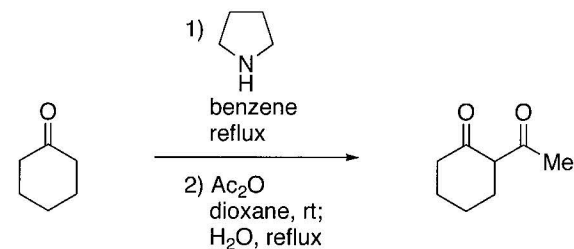
A 020



A 021



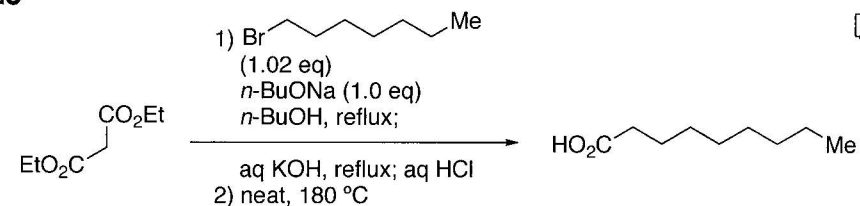
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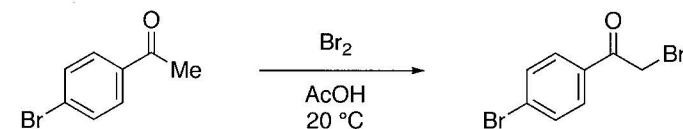
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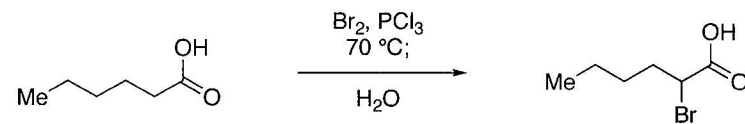
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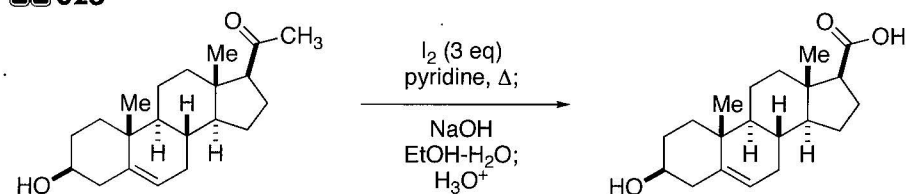
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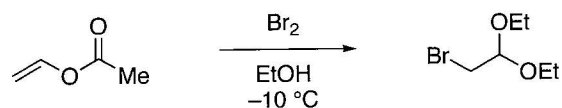


A 025

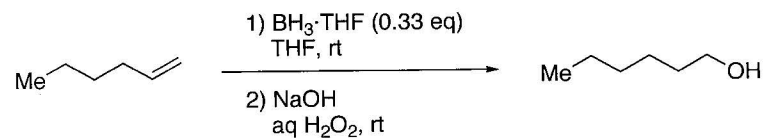
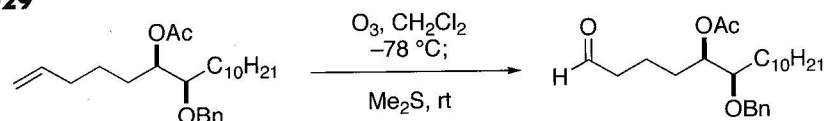


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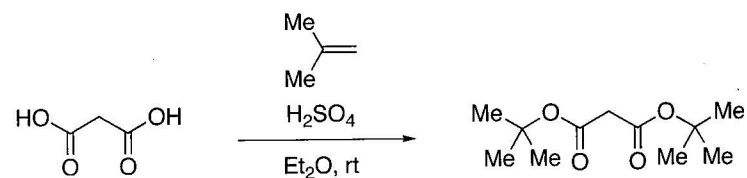
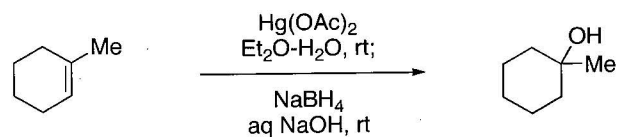
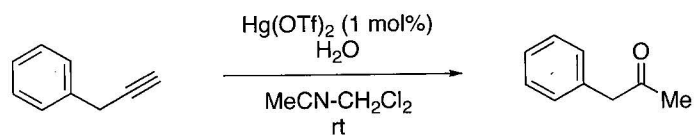
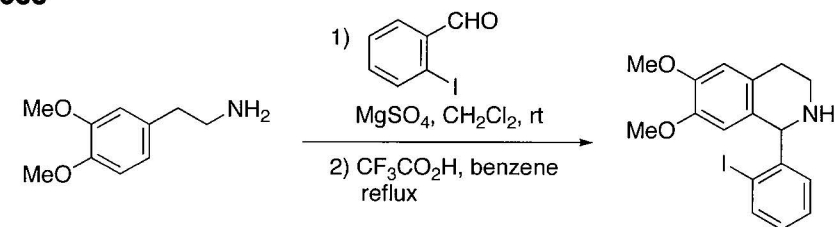


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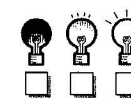
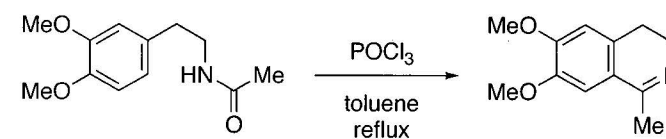
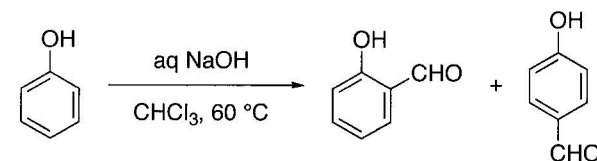
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**A 028**☐ ☐ ☐**A 029**

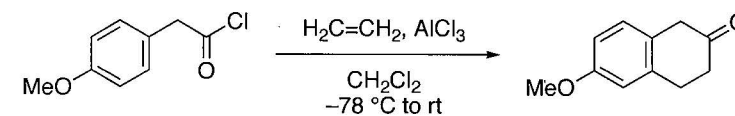
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A 030**A 031****A 032****A 033**

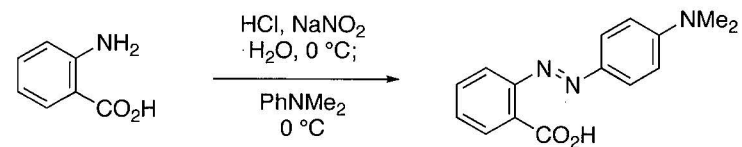
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**A 034**☐ ☐ ☐**A 035**

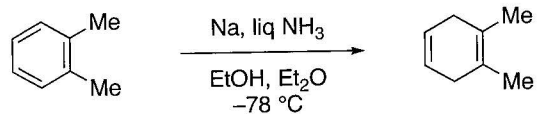
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A 036

11111

A 037

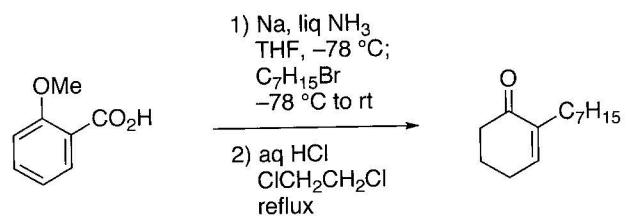
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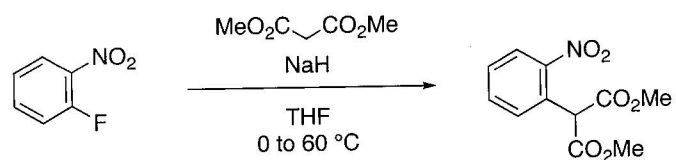
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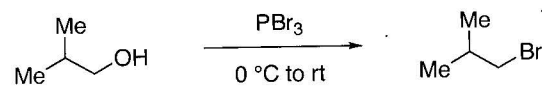
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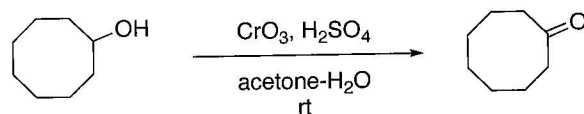
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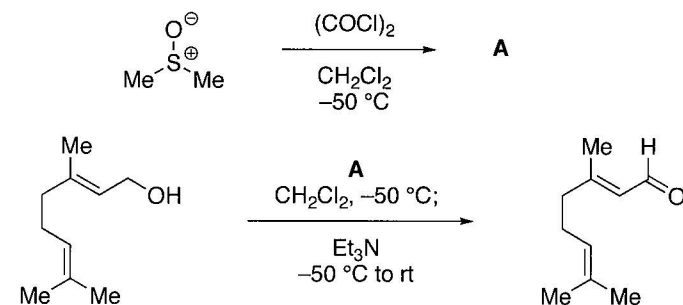
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A 042



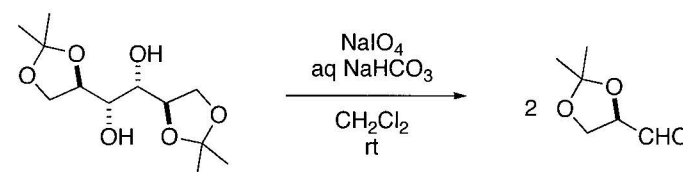
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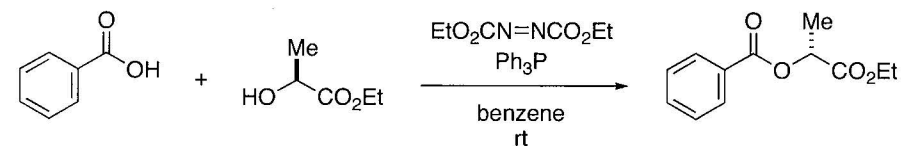
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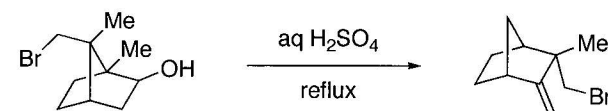
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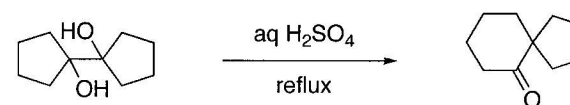
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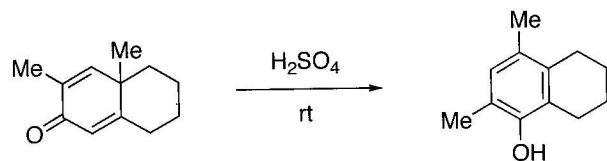
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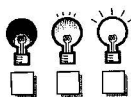
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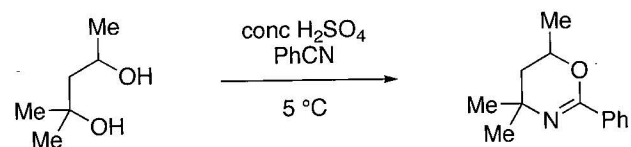
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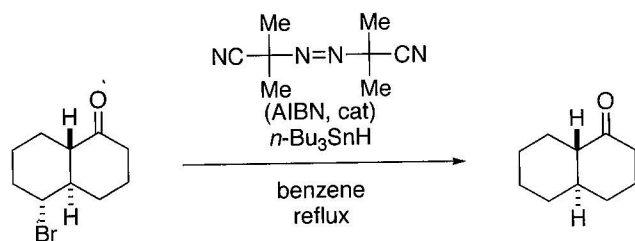
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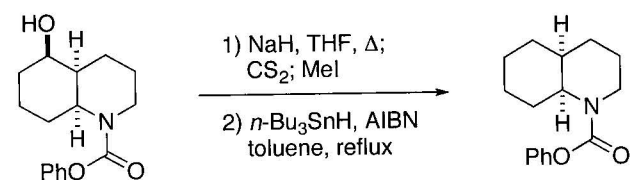
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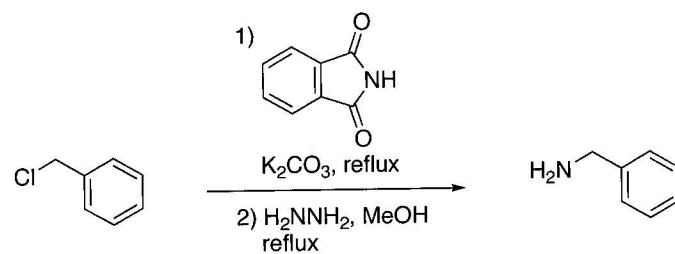
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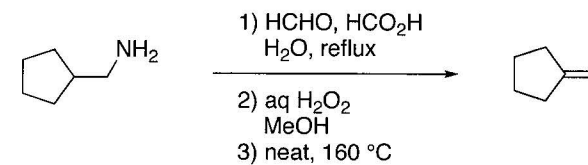
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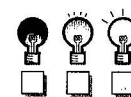
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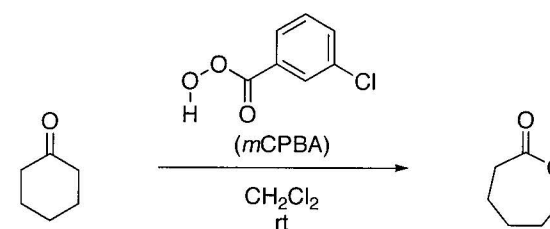
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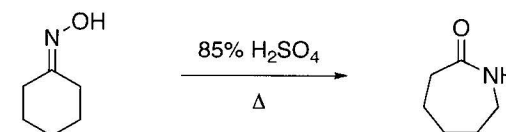
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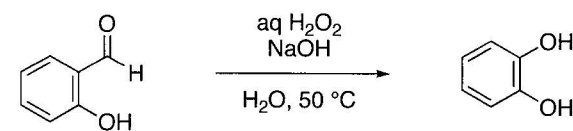
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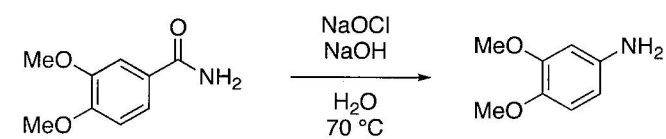
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A 056

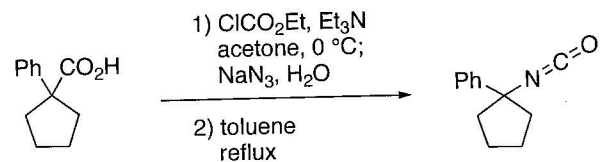


A 057

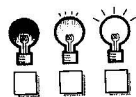


問題

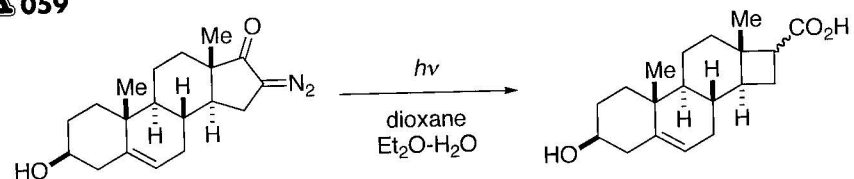
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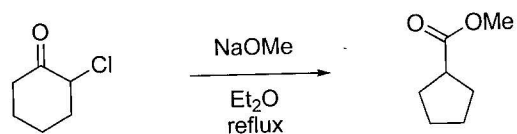
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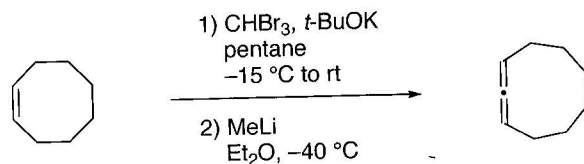
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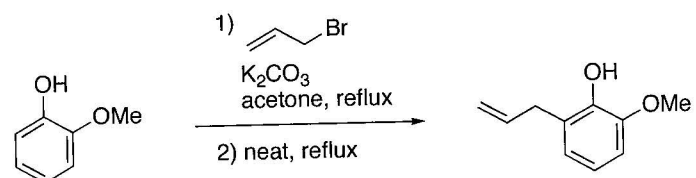
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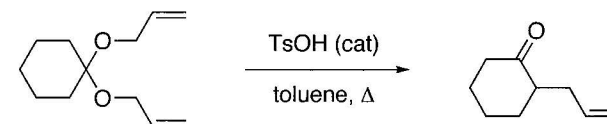
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☐ ☐ ☐

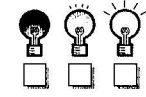
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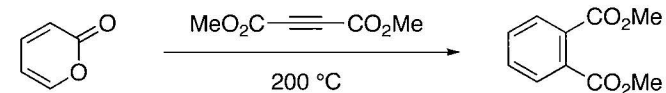
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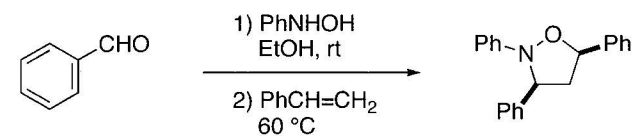
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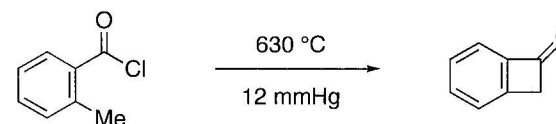
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☐ ☐ ☐

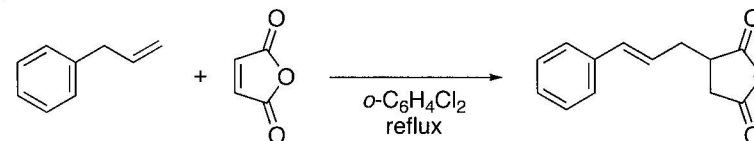
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☐ ☐ ☐

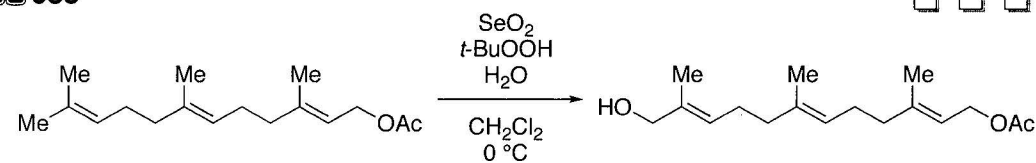
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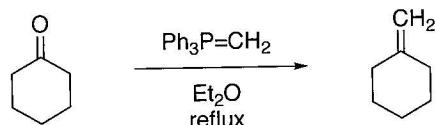
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☐ ☐ ☐

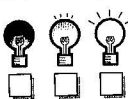
A 068


☐ ☐ ☐

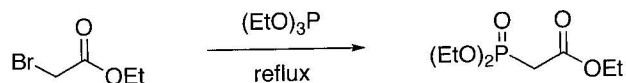
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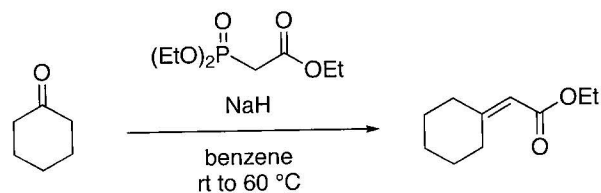
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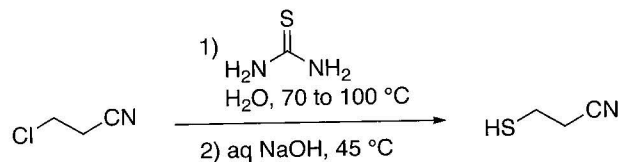
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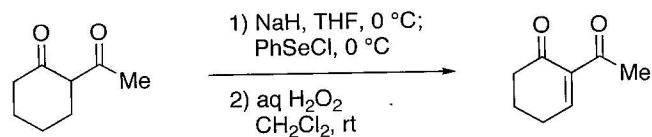
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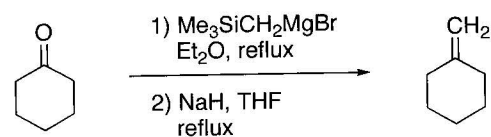
A 072



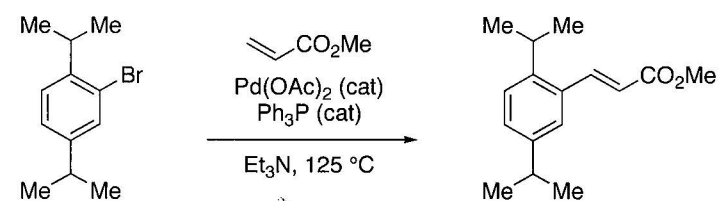
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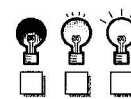
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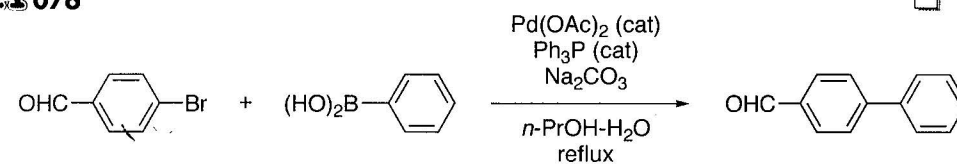
A 075



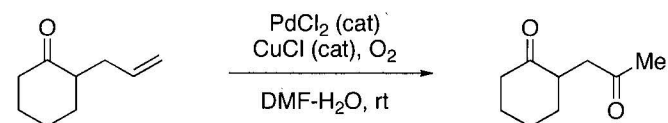
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A 076



A 077



A 078

