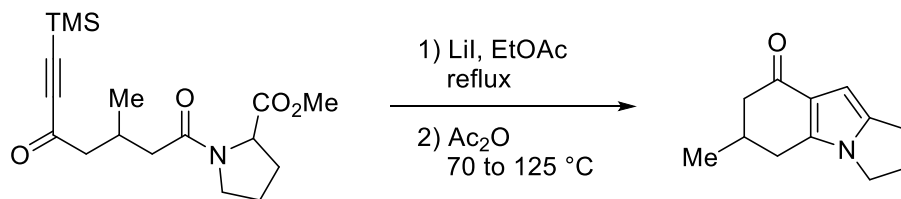


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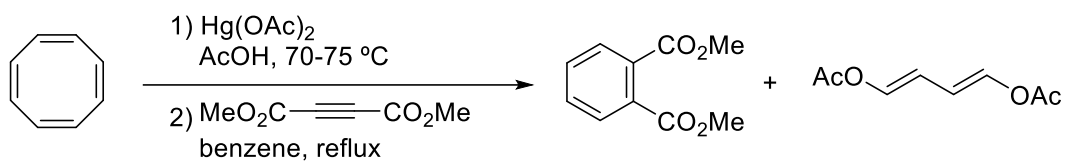
1.



演習で学ぶ有機反応機構(化学同人) C23
M. J. Martinelli *et al.*, *J. Org. Chem.*, **62**, 982 (1997)

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2.



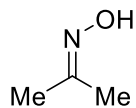
演習で学ぶ有機反応機構(化学同人) C例題
R. Dinsmore *et al.*, *Org. Synth., Coll. Vol. II* **1943**, 358.

Name _____

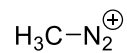
3.

Provide the pKa values of these acids. You may round off the values to the nearest whole number.

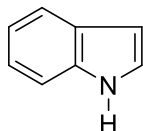
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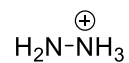
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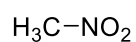
3)



4)



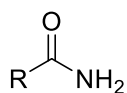
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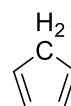
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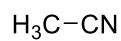
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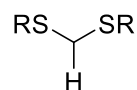
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9)



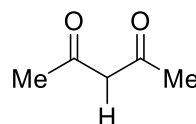
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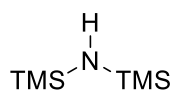
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12)



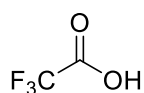
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14)



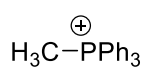
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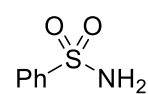
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17)



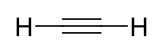
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19)

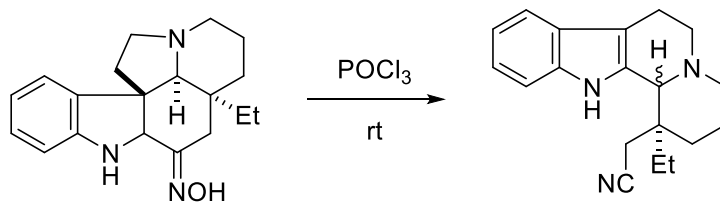


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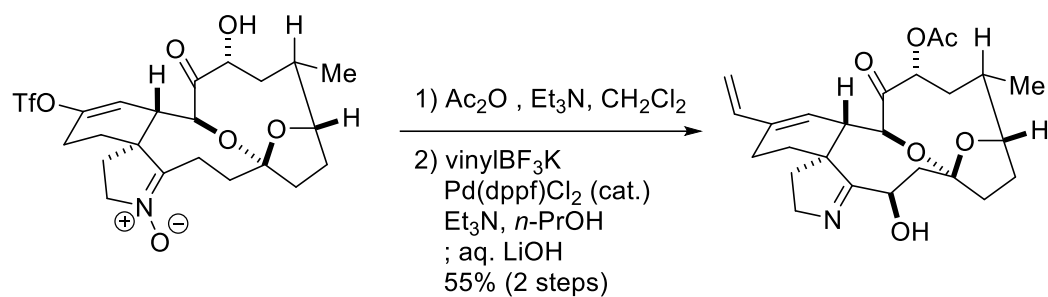
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4.

J. Le Men *et al.*, *Tetrahedron Lett.*, 1597 (1974)

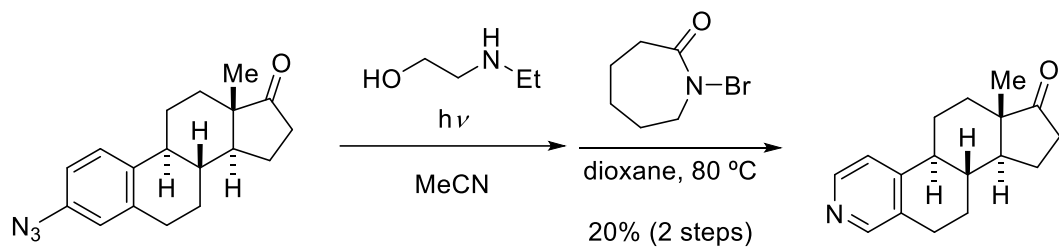
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5.

P. S. Baran *et al.*, *Nature*, DOI: 10.1038/s41586-023-06535-1

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6.

M. D. Levin *et al.*, *Science*, **381**, 1474 (2023)