

Answer on Question #75280 – Chemistry – Organic Chemistry

Task:

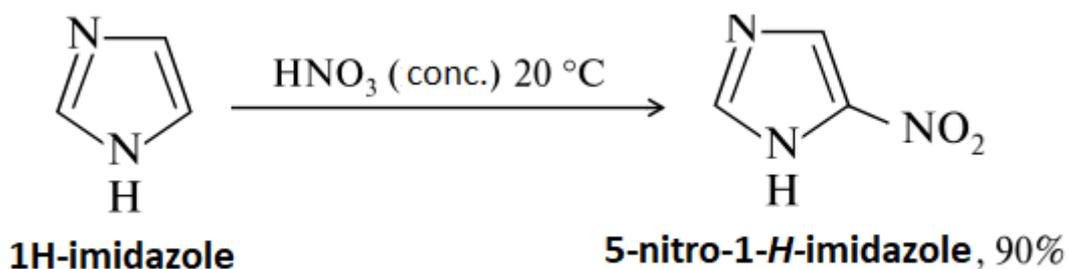
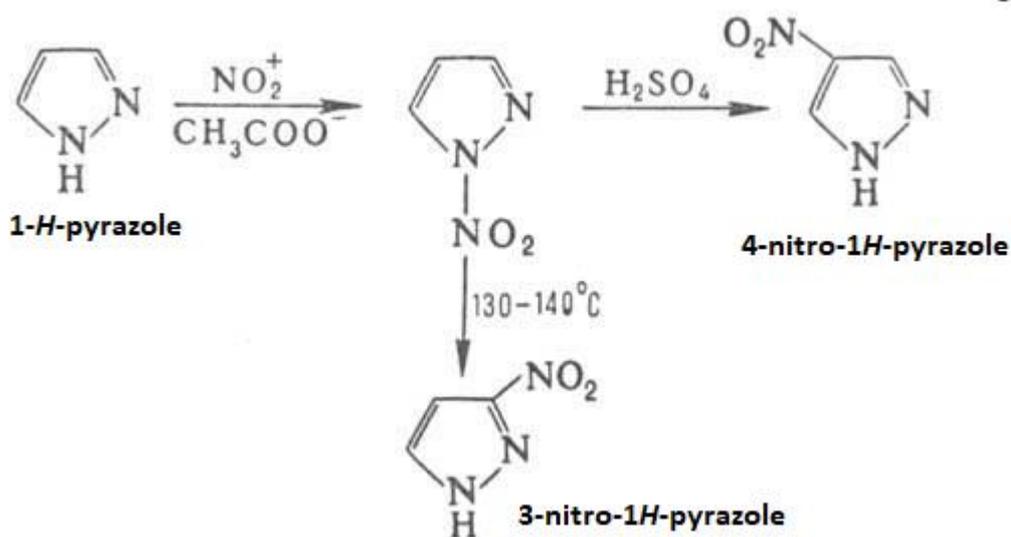
Predict the product of following reactions:

- 1) Nitration ofazole
- 2) Friedel-crafts acylation of pyridine
- 3) Reduction of pyrrole with zinc and ethanoic acid

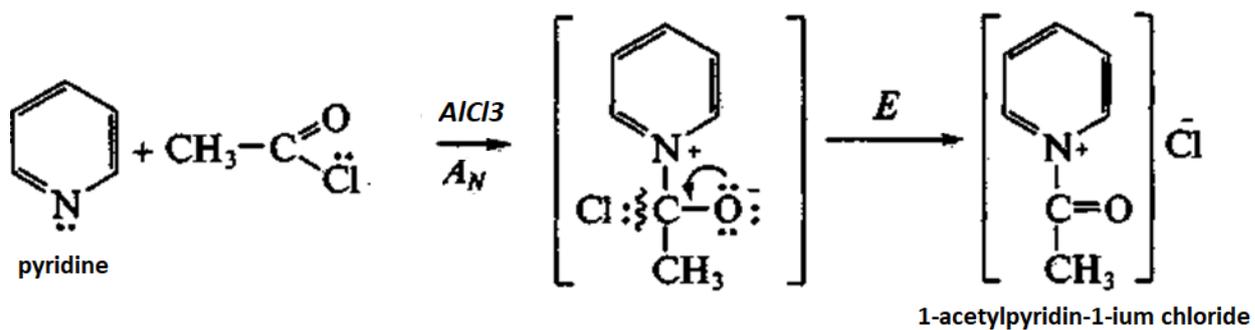
Solution:

- 1) **Azoles** are a class of five-membered heterocyclic compounds containing a nitrogen atom and at least one other non-carbon atom (i.e. nitrogen, sulfur, or oxygen) as part of the ring.

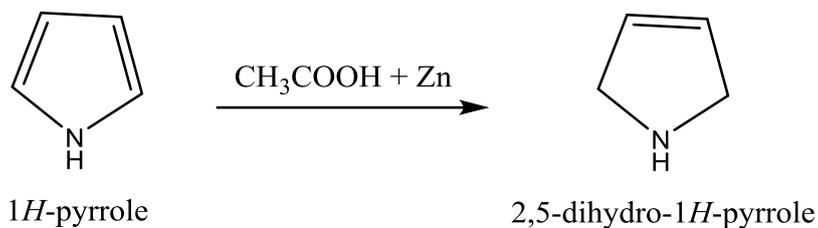
For example:



2) Friedel-crafts acylation of pyridine:



3) Reduction of pyrrole with zinc and ethanoic acid:



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