

History of up-date

Revision date

March 29th, 2022

Solution for Question 1-5-2 in Problem 1: add "Pb²⁺" for "the main anions and cations in the solutions **B**"

Corrections

Solution for Question 2-3-1 in Problem 2: $\text{Al}_2\text{O}_3 + 6\text{Zn} + 12\text{HCl} \rightarrow 2\text{AsH}_3 \uparrow + 6\text{ZnCl}_2 + 3\text{H}_2\text{O}$

$\rightarrow \text{As}_2\text{O}_3 + 6\text{Zn} + 12\text{HCl} \rightarrow 2\text{AsH}_3 \uparrow + 6\text{ZnCl}_2 + 3\text{H}_2\text{O}$

Question 2-3-4 in Problem 2: $\text{CuHAsO}_4 \rightarrow \text{CuHAsO}_3$

Question 2-3-8 in Problem 2:

If sulfur reacts completely \rightarrow After filtering the excess elemental sulfur from the solution

(the percentage loss of product is 13.3%) \rightarrow (the percentage loss of sulfur is 13.3%)

Solution for Question 2-3-8 in Problem 2:

$4\text{H}_2\text{O} + 6\text{NaOH} + \text{As}_2\text{O}_3 + 2\text{S} \rightarrow 2\text{Na}_3\text{AsSO}_3 \cdot 7\text{H}_2\text{O} \rightarrow$

$11\text{H}_2\text{O} + 6\text{NaOH} + \text{As}_2\text{O}_3 + 2\text{S} \rightarrow 2 [\text{Na}_3\text{AsSO}_3 \cdot 7\text{H}_2\text{O}]$

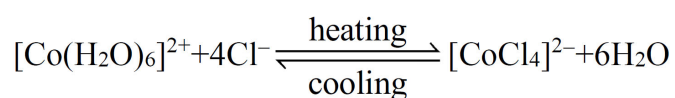
Problem5



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Problem 7: $\text{Al}_2\text{Si}_2\text{O}_5(\text{OH})_4$ (or $2\text{SiO}_2 \cdot \text{Al}_2\text{O}_3 \cdot 2\text{H}_2\text{O}$) \rightarrow $\text{Al}_2\text{Si}_2\text{O}_5(\text{OH})_4$ (or $2\text{SiO}_2 \cdot \text{Al}_2\text{O}_3 \cdot 2\text{H}_2\text{O}$)

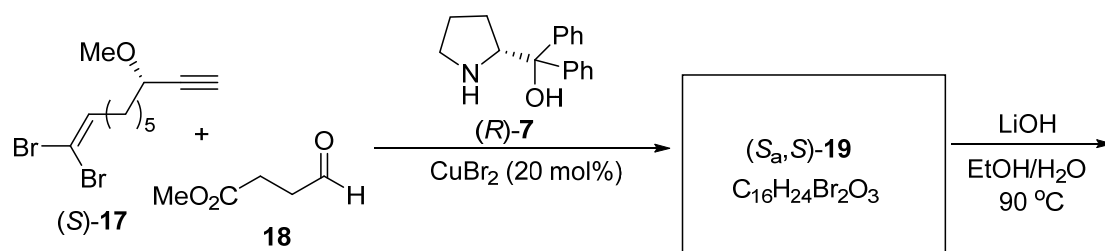
Problem 7: In order to highlight the porous characteristics of zeolite, the framework structure focusing on the connectivity of **silicon** atoms is put forwards. \rightarrow In order to highlight the porous characteristics of zeolite, the framework structure focusing on the connectivity of **T** atoms is put forwards.

Problem 7: a defective spinel structure \rightarrow a defective spinel structure

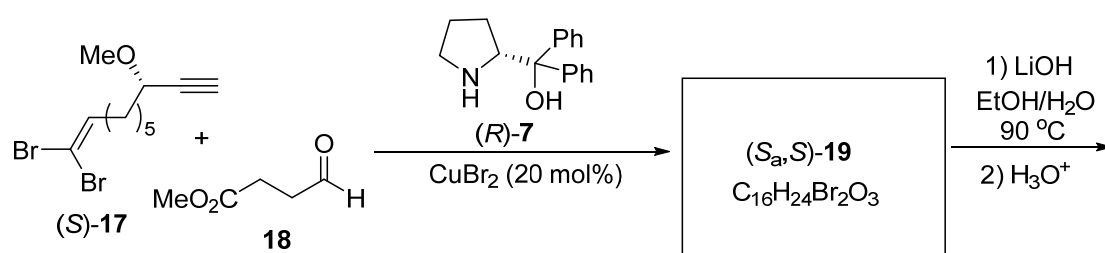
Revision date

April 25th, 2022

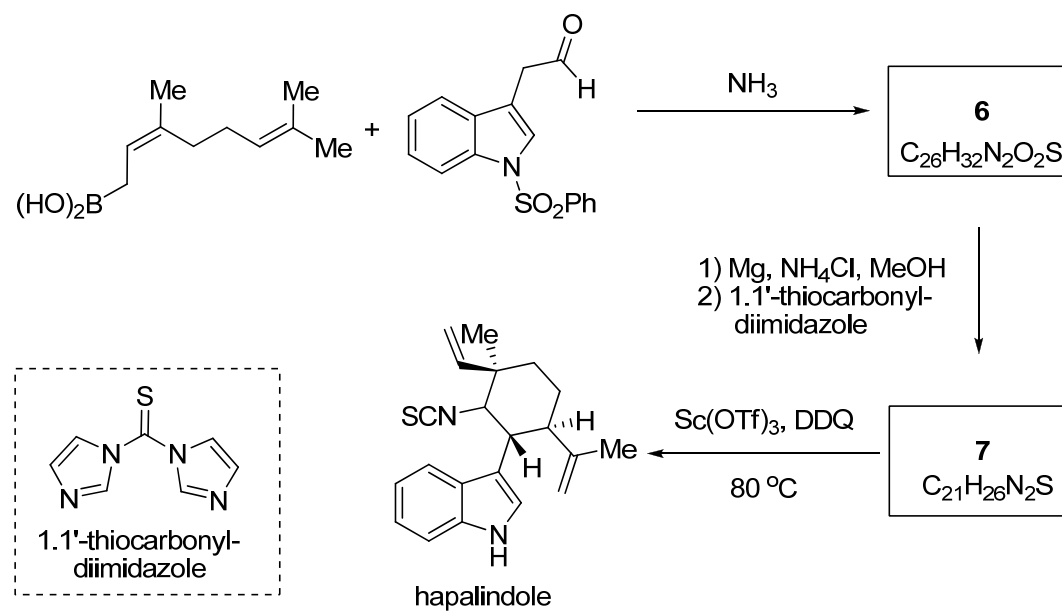
Question 13-4 in Problem 13:



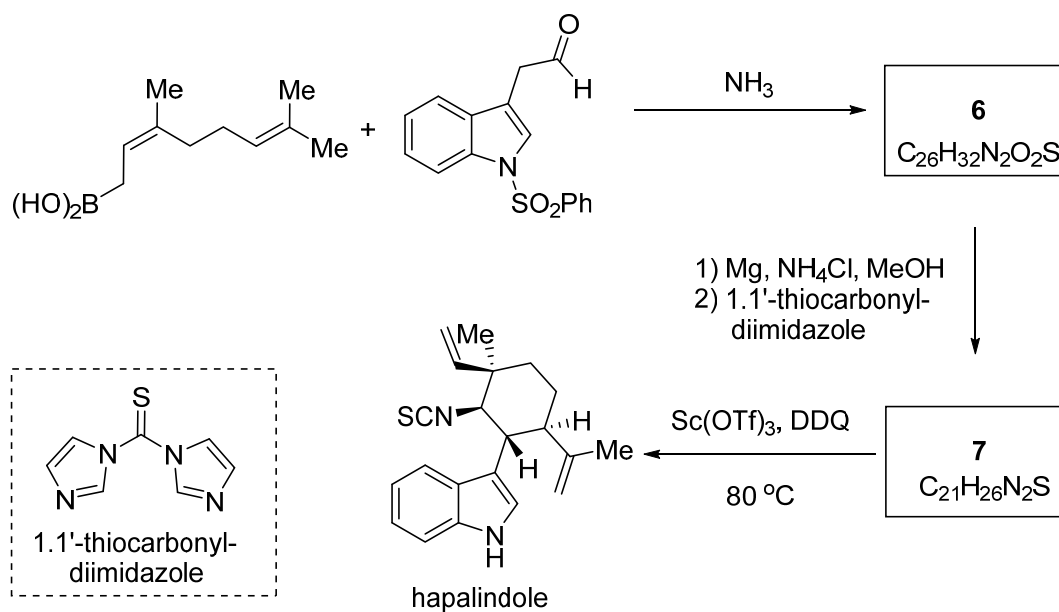
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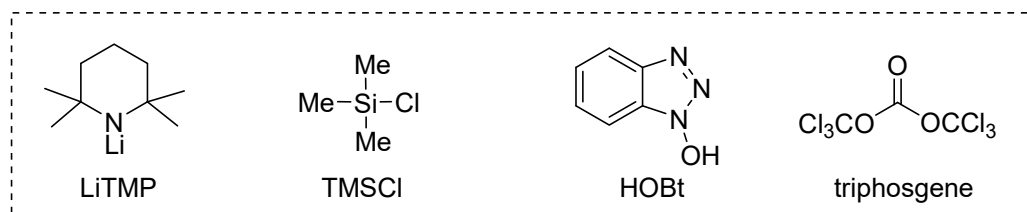
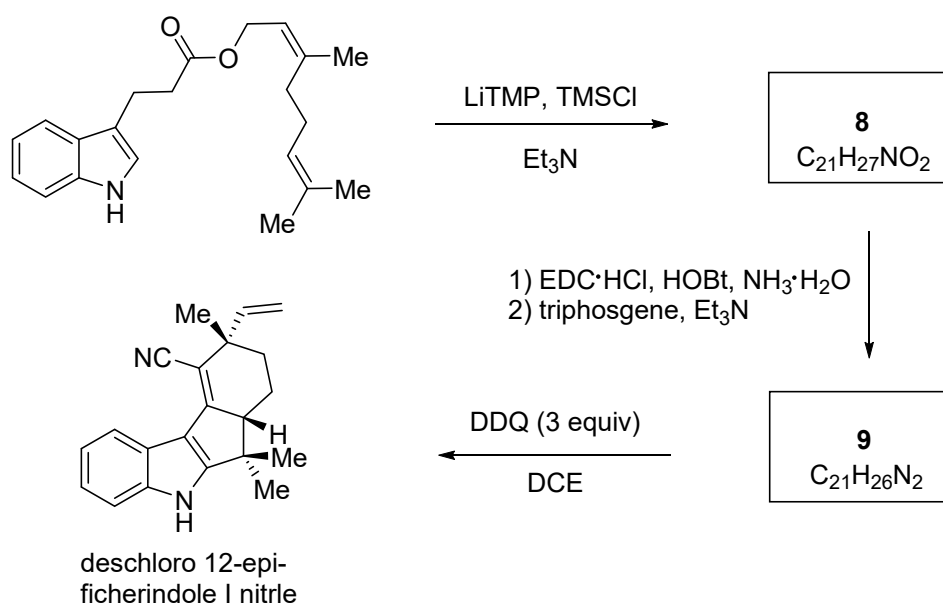
Question 20-5 in Problem 20:



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Question 20-6 in Problem 20:



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