

Massachusetts Institute of Technology

Chemistry 5.43

March 16, 2007

Professor M. Movassaghi

Practice Exam #2

Question 1	_____ / 15 points
Question 2	_____ / 20 points
Question 3	_____ / 20 points
Question 4	_____ / 20 points
Question 5	_____ / 10 points
Question 6	_____ / 15 points

Total _____ / 100 points

NAME: _____

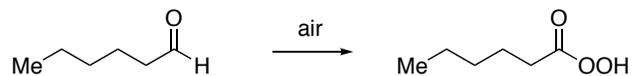
Signature: _____

T.A.: _____

There are 6 pages (2-7) of questions in this exam.

Question 1.

Aldehydes undergo autoxidation upon exposure to air. Provide a detailed mechanism for the following transformation.



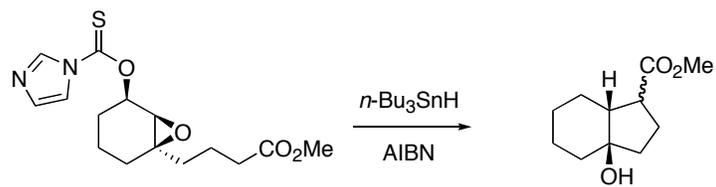
Initiation step(s):

Propagation step(s):

Termination steps (provide at least 2):

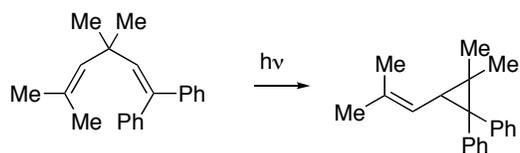
Question 3.

Provide a *detailed* mechanism for the following transformation. Identify the key steps.



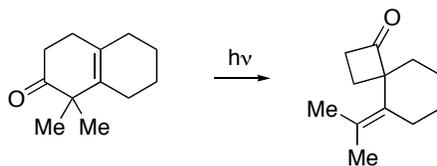
Question 4.

Provide a *detailed* mechanism for the following transformation. Identify the key steps.



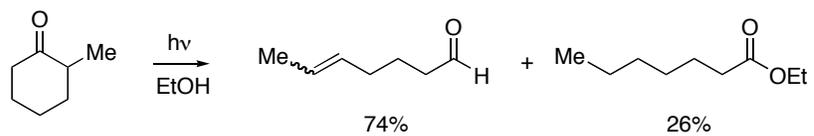
Question 5.

Provide a *detailed* mechanism for the following transformation. Identify the key steps.



Question 6.

Provide a *detailed* mechanism for the following transformation. Identify the key steps.



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