



Organic Chemistry I

Test 3 Extra Synthesis Practice Problems

Page 1: Synthesis Design Practice.

Page 2+3: Predict the Product Practice (including some that involve stereochemistry).

Page 4: Cis/trans Stereospecific reactions: which recipe to use; which E or Z alkene to use.

Page 5: Recognizing cationic/anionic/radical reactions, and reasonable intermediates/first steps

Page 6: Elements of unsaturation/hydrogenation problems; ozonolysis puzzle problems.

Answers

1

A. Provide reagents for the following transformations.

1. H_2SO_4
2. Br_2
1. H_2SO_4
2. $\text{H}_2(\text{OAc})_2$,
3. NaBH_4
1. NEt_3 (bulky base) or KO^+t
2. Cl_2 , H_2O
1. NEt_3 (bulky base)
2. $\text{BH}_3 \cdot \text{THF}$
3. NaOH , H_2O_2
1. NEt_3
2. OsO_4 , H_2O_2
1. Br_2 , $h\nu$
2. NaOH (small base)
3. O_3
4. Me_2S
1. Br_2 , $h\nu$
2. NaOH
3. $\text{CH}_3\text{CO}_3\text{H}$, H_2O



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RD Boyd



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