

6. CrO_3

Chromium trioxide

- The mixture of chromium trioxide and sulfuric acid dissolved in a mixture of acetone and water is called **Jones reagent**.
- In aqueous acidic solutions, CrO_3 forms chromic acid (H_2CrO_4) which acts, as a strong oxidizing agent.
- It is also used to prepare Pyridinium chlorochromate (**PCC**) (Pyridine + CrO_3 + HCl) which is a mild oxidizing agent.

Function –

Mild oxidizing agent	Strong oxidizing agent
1. converts primary alcohols to Aldehydes	1. converts primary alcohols to carboxylic acids
2. secondary alcohols to ketones.	2. secondary alcohols to ketones.
3. NO oxidation of tertiary alcohols	3. NO oxidation of tertiary alcohols

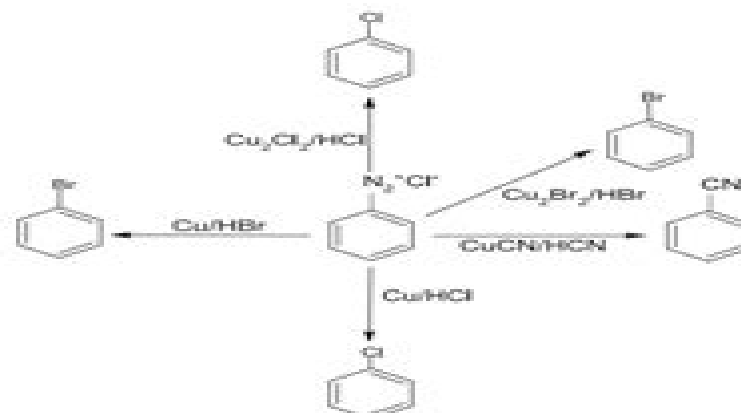


Reaction of alcohols with CrO_3

1. Oxidation of primary alcohols to aldehydes or carboxylic acids.
2. Oxidation of secondary alcohols to ketones.
3. Oxidation of tertiary alcohols to alkenes (via dehydration).
4. Oxidation of alkenes to epoxides or diols.
5. Oxidation of alkenes to aldehydes or ketones.
6. Oxidation of alkenes to carboxylic acids.

Reaction of alcohols with CrO_3

1. Oxidation of primary alcohols to aldehydes or carboxylic acids.



Sandmeyer's Reaction



Gatterman's Reaction



2. It is also used for preparing organocuprates (Gilman reagents)

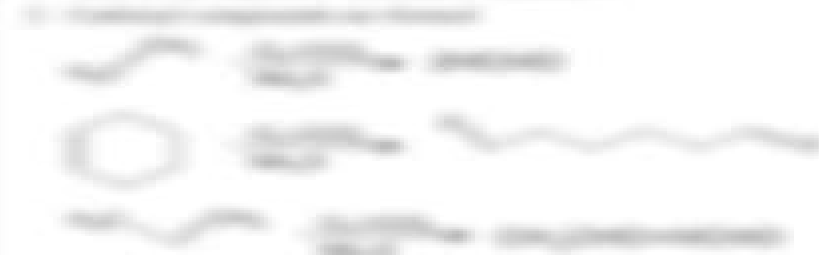


Example

Reaction scheme

1. Oxidation of primary alcohols to aldehydes or carboxylic acids.

2. Oxidation of secondary alcohols to ketones.



Organic Chemistry Reagent Study Guide

Susan McMurry



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Study Guide & Solutions Manual to Accompany Organic Chemistry, Third Edition G. Marc Loudon, Joseph G. Stowell, 1995

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Organic Chemistry, Study Guide T. W. Graham Solomons, 1996. This supplement accompanies an updated text which features more than 350 new problems. Carbonyl chemistry is now covered in consecutive chapters. The concept of ionic reactions is consolidated before students move on to study radical reactions.

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to Accompany Organic Chemistry Alan S. Wingrove, Robert L. Caret, 1981

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