

# ORGANIC CHEMISTRY LESSON 5

## Aldehydes and Ketones

### Primary Learning Goals

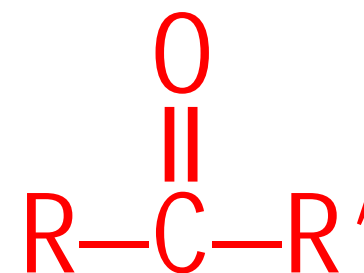
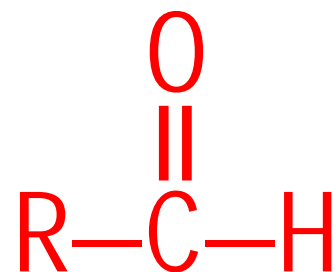
I can use IUPAC conventions to write systematic names and draw structures for aldehydes and ketones.

I can name, describe, and recognise various chemical reactions involving aldehydes and ketones, and predict the products of these reactions.

# Aldehydes

# Ketones

Generic Structure:



Functional Group:

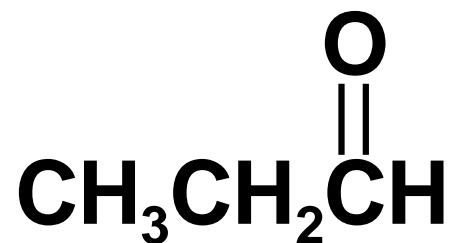
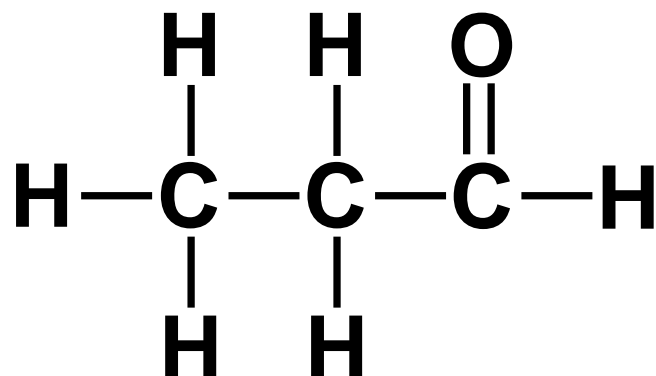


Nomenclature:

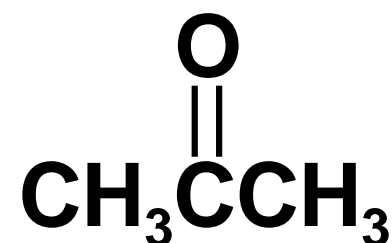
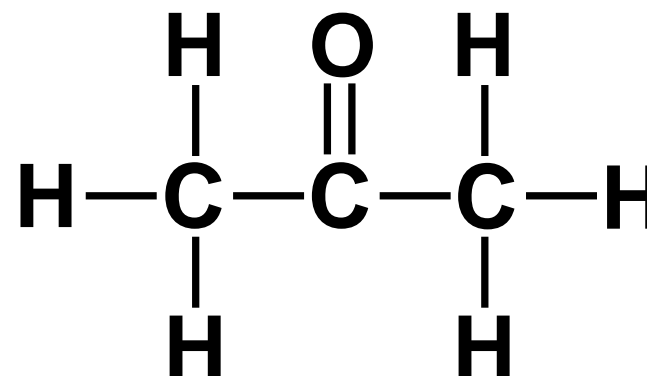
"-al" suffix

"-one" suffix

examples



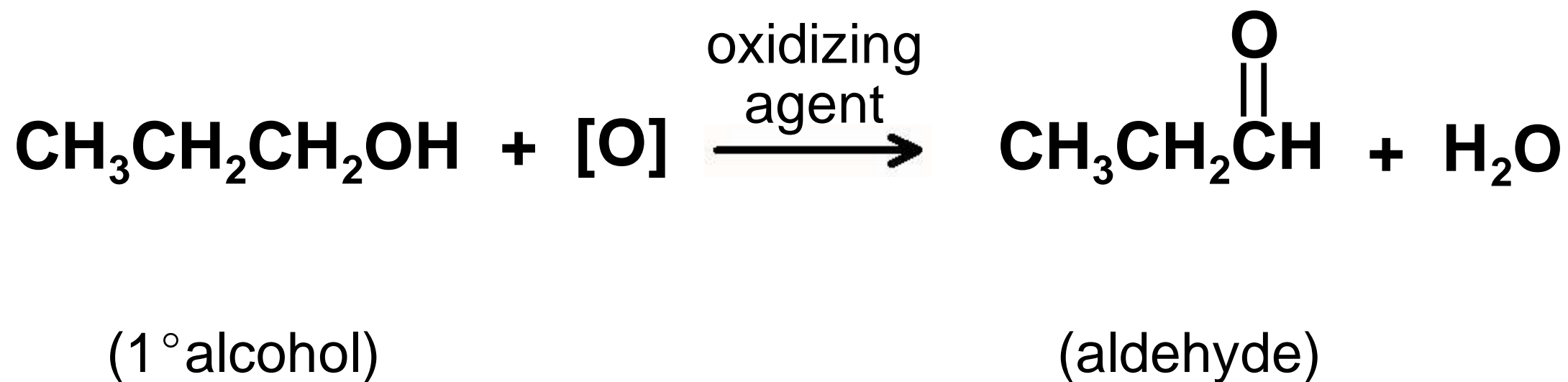
**propanal**



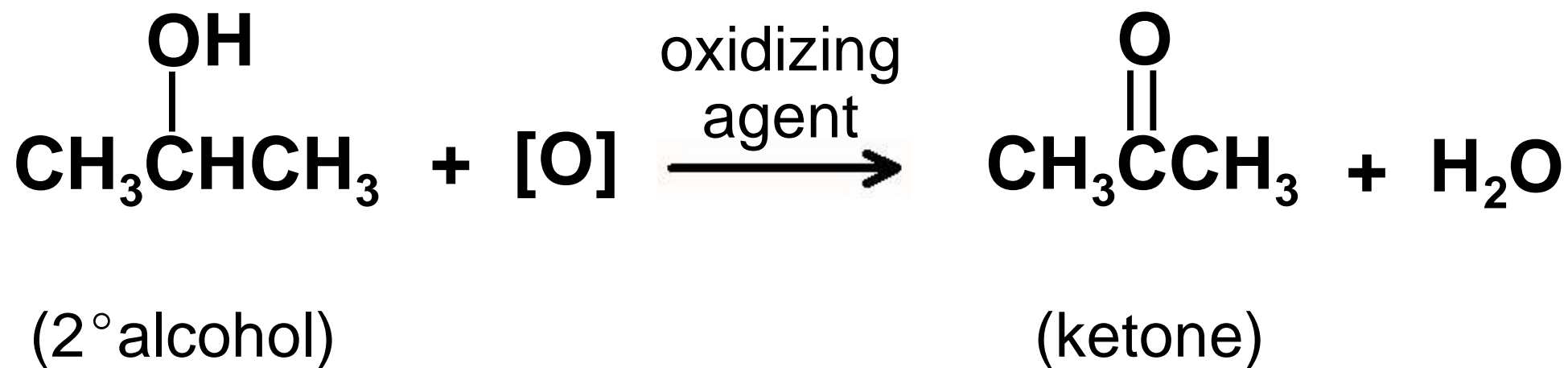
**propan-2-one**  
(acetone)

Reactions:

1. **Controlled oxidation** of a primary alcohol produces an aldehyde.



2. **Controlled oxidation** of a secondary alcohol produces a ketone.



3. **Hydrogenation** (addition reaction) of an aldehyde or ketone produces an alcohol.

