

MODULE 4: HYDROCARBON DERIVATIVES 2

OUTLINE

- Lesson 1: Aldehydes and Ketones
- Lesson 2: Carboxylic Acid & Derivatives

M4.1.1: ALDEHYDES AND KETONES

Aldehydes: RCOOH or RCHO

Ketones: RCOR

Both contain the **carbonyl group** ($\text{C}=\text{O}$)

Glucose, the most common sugar in the body, is an aldehyde.

Carbonyl carbon atom is **TRIGONAL PLANAR** (120 degrees)

- is polar
- Oxygen is more electronegative than Carbon

ALDEHYDE NOMENCLATURE

IUPAC

1. -e is removed and replaced with -al
2. Aldehyde functional group is always the #1 locant carbon.
3. **WHEN IN A RING**, add suffix -*carbaldehyde*
 - a. Carbon attached to the aldehyde functional group is C1

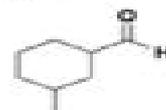
COMMON

1. Start with common parent chain name
2. Add suffix -*aldehyde*



IUPAC: ethanal
COMMON: acetaldehyde

Try 1!



Additional Info:

COMMON NAME	IUPAC NAME
Formaldehyde	Methanal
Acetaldehyde	Ethanal
Propionaldehyde	Propanal
Butyraldehyde	Butanal
Valeraldehyde	Pentanal

KETONES NOMENCLATURE

IUPAC

1. Change -e to -one
2. ketone functional group should be given the lower number (not necessarily always #1)
 - a. Indicate the number of ketone functional group

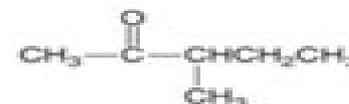
COMMON

1. Substituents listed alphabetically + ketone



IUPAC: 3-hexanone
COMMON: ethyl propyl ketone

Try 2!



Hydrocarbon Compounds Study Guide Answers

RJ Shavelson



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