

What is the difference between an aldehyde and a ketone?

- A- Aldehydes have carbonyl groups; ketones have carboxyl groups.
- B- Aldehydes have carbonyl groups at the end of a carbon chain; ketones have carbonyl groups within carbon chains.
- C- Aldehydes have carboxyl groups; ketones have carbonyl groups.
- D- Aldehydes have carboxyl groups at the end of a carbon chain; ketones have carboxyl groups within carbon chains.

2. An organic compound that has a carbonyl group bonded to a hydroxyl group is known as a(n)

- A- alkane
- B- alcohol
- C- aldehyde
- D- carboxylic acid

3. What is the name of the process in which a carboxylic acid reacts with an alcohol producing an ester and releasing water?

- A- hydration
- B- halogenation
- C- hydroxylation
- D- condensation

4. Which of the following is not a property of the ketones?

- A- form hydrogen bonds with each other
- B- somewhat soluble in water
- C- solvent for waxes
- D- polar molecule

5. An ester is any organic compound with a carboxyl group in which the hydrogen of the _____ group has been replaced by a(n) _____ group.

- A- carbonyl; alkyl
- B- hydroxyl; ketone
- C- hydroxyl; alkyl
- D- carbonyl; ketone