



ACROSS

- 1 A _____ reaction is a chemical reaction that involves the loss of water from the reacting molecule.
- 4 _____ substitution is a fundamental class of substitution reaction in which an electron rich nucleophile selectively bonds with or attacks the positive charge of a group or atom called the leaving group.
- 5 _____ is the general name for a class of chemical compounds which contain an oxygen atom connected to two alkyl or aryl groups.
- 8 _____ esterification is the process of forming an ester by refluxing a carboxylic acid and an alcohol in the presence of an acid catalyst.
- 11 _____ is the process of exchanging the alkoxy group of an ester compound by another alcohol.

DOWN

- 2 Phosphorus _____ is widely used in the laboratory for the conversion of alcohols to alkyl bromides.
- 3 _____ is the general name for a chemical reaction in which two chemicals, such as an alcohol and an acid, form an ester as the reaction product.
- 6 A _____ is the conjugate base of an alcohol.
- 7 A _____ is a cyclic ether with only three ring atoms.
- 9 The Williamson _____ synthesis involves the reaction of an alkoxide ion with a primary alkyl halide via an SN2 reaction.
- 10 _____ chloride is an inorganic compound often used in chlorination reactions in which sulfur is bound to an oxygen and two chlorine atoms.