Question #65364, Chemistry / Organic Chemistry

Question:

How do oxidation reactions work? What is the structure of the aldehyde / ketone produced by the oxidation of 2-butanol?

Answer:

An oxidation-reduction (redox) reaction is a type of chemical reaction that involves a transfer of electrons between two species. An oxidation-reduction reaction is any chemical reaction in which the oxidation number of a molecule, atom, or ion changes by gaining or losing an electron. Redox reactions are common and vital to some of the basic functions of life,
including photosynthesis, respiration, combustion, and corrosion or rusting.