



## ACROSS

- 3** A radical \_\_\_\_\_ reaction is a reaction involving free radicals as a reactive intermediate in which functional group in a particular chemical compound is replaced by another group.
- 4** A radical \_\_\_\_\_ is a free radical species that carries a charge.
- 6** \_\_\_\_\_ is chemical bond dissociation of a neutral molecule generating two free radicals.
- 8** A \_\_\_\_\_ is a compound containing an oxygen-oxygen single bond.
- 10** In free radical \_\_\_\_\_, radical substitution takes place with halogen reagents and alkane substrates.
- 11** \_\_\_\_\_ is the free radical product of the one-electron reduction of dioxygen.

## DOWN

- 1** \_\_\_\_\_ is a process of bonding monomers, or single units together through a variety of reaction mechanisms to form longer chains named polymers.
- 2** Radical \_\_\_\_\_s are substances that can produce radical species under mild conditions and promote radical polymerization reactions.
- 5** Free \_\_\_\_\_s are atomic or molecular species with unpaired electrons on an otherwise open shell configuration.
- 7** Organic \_\_\_\_\_s are organic compounds containing an oxygen-oxygen single bond.
- 9** Free \_\_\_\_\_ addition is an addition reaction in organic chemistry. The basic steps are initiation, chain propagation, chain termination.