



ACROSS

- 2** 1,3-_____ is a simple conjugated diene with four carbon atoms. It is an important industrial chemical used in the production of synthetic rubber.
- 3** Nucleophilic _____ addition occurs by reaction of a nucleophile at the beta position of alpha-beta unsaturated carbonyl compounds.
- 5** _____ chloride is a colorless liquid featuring an alkene group next to a methyl chloride group.
- 7** A _____ rearrangement or shift is an organic reaction in which the double bond shifts by means of a resonant intermediate to the next carbon atom.
- 8** _____ is the term for the radical, ion or functional group which can be obtained formally by removing a hydrogen atom from toluene's methyl group.

DOWN

- 1** _____ is a tool used to represent and model certain types of non-classical molecular structures arising when no single conventional model showing electrons shared exclusively by two atoms can actually represent the observed molecule.
- 4** A _____ group is an alkene hydrocarbon group made up of a vinyl group attached to a methylene group.
- 5** The Diels-_____ reaction is an cycloaddition reaction between a conjugated diene and a substituted alkene, the dienophile, to form a substituted cyclohexene system.
- 6** _____ alcohol is a colorless liquid featuring an alkene group next to a methyl hydroxyl group.