



ACROSS

- 4** A metal _____ is an alkyne for which the terminal proton has been replaced by a metal such as sodium or an organolithium.
- 5** The _____ reaction is the addition a nitrogen-hydrogen bond across the carbon-carbon double or triple bonds of an alkene or alkyne.
- 6** Used for the hydrogenation of alkynes to alkenes, the _____ catalyst is a heterogeneous catalyst that consists of palladium deposited on calcium carbonate and treated with various forms of lead.
- 7** A _____ is a functional group in organic chemistry consisting of a conjugated alkyne and alkene group.

DOWN

- 1** _____ is a hydrocarbon belonging to the group of alkynes, considered to be the simplest of all alkynes as it consists of two hydrogen atoms and two carbon atoms.
- 2** A _____ is a hydrocarbon which is the cyclic analog of an alkyne.
- 3** _____s are hydrocarbons that have at least one triple bond between two carbon atoms.