



ACROSS

- 1 A _____ is the general name for esters of phosphoric acid.
- 3 _____ is the chemical element that has the symbol P and atomic number 15.
- 7 A _____ bond is a group of strong covalent bonds between the phosphorus atom in a phosphate group and two other molecules over two ester bonds. Such bonds make up the backbone of DNA.
- 8 The _____ cation is a positively charged polyatomic ion in which a phosphorus atom is bound to four hydrogens.
- 9 Alkyltriphenyl-_____ salts are widely used for the preparation of Wittig reagents for the Wittig reaction.
- 10 _____ is a common organophosphorus compound in which a single phosphorus is bound to three phenyl groups.

DOWN

- 2 A _____ is a phosphonic acid, its conjugate base, or the ester of a phosphonic acid.
- 4 Within organic chemistry, a _____ acid contains an organic portion bound to a phosphorus which is singly bonded to two hydroxyl oxygens and doubly bonded to a third oxygen.
- 5 Phosphorus _____ is widely used in the laboratory for the conversion of alcohols to alkyl bromides.
- 6 _____ is the common name for phosphorus hydride, also known by the IUPAC name phosphane and, occasionally, phosphamine.