1. Record Nr. UNINA9910815455603321 Autore Timperley Christopher M. **Titolo** Best synthetic methods: organophosphorus (V) chemistry // coauthored and edited by Christopher M. Timperley; contributors, Nicholas Cooper [and seven others] London, England:,: Academic Press,, 2015 Pubbl/distr/stampa ©2015 **ISBN** 0-08-101580-1 0-08-098224-7 Descrizione fisica 1 online resource (787 p.) Collana Best Synthetic Methods 547.07 Disciplina Soggetti Organophosphorus compounds Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references at the end of each chapters and index. Front Cover; Best Synthetic Methods; OTHER VOLUMES IN THE SERIES; Nota di contenuto Best Synthetic Methods: Copyright; ACKNOWLEDGEMENTS: REFERENCES: 1.4 PHOSPHORUS COMPOUNDS IN LIVING SYSTEMS; 1.5.3 ORGANOPHOSPHORUS PESTICIDES: 1.6 NOMENCLATURE OF ORGANOPHOSPHORUS COMPOUNDS; 1.7 CHIRAL PHOSPHORUS COMPOUNDS AND BIOLOGICAL IMPLICATIONS; 1.8 PHOSPHORUS-CONTAINING PHARMACEUTICALS: 1.9 FIRE RETARDANTS AND FIRE-EXTINGUISHING COMPOUNDS: 1.10 TOXICOLOGY AND MEDICAL TREATMENT OF ORGANOPHOSPHORUS COMPOUNDS; 1.11 FLUOROGENIC NERVE AGENT MIMICS FOR SCREENING FOR IMPROVED BIOSCAVENGERS 4.48 DIALKYL N-HYDROXY/ALKOXYPHOSPHORAMIDATES (RO)2P(O) NHOR (R=H OR ALKYL) Sommario/riassunto Best Synthetic Methods: ORGANOPHOSPHORUS (V) CHEMISTRY provides systematic coverage of the most common classes of pentavalent organophosphorus compounds and reagents (including phosphonyl, phosphoryl, and organophosphates), and allows researchers an easy point of entry into this complex and economically important field. The book follows the Best Synthetic Methods format, containing practical methods, synthetic tips, and shortcuts. Where relevant, articles include

toxicity data and historical context for the reactions. Typical analytical and spectroscopic data are also presented to enable scie