

1. Record Nr.	UNINA9910957519903321
Titolo	Carbohydrate chemistry : proven synthetic methods / / edited by Pavol Kovac
Pubbl/distr/stampa	Boca Raton, FL : , : CRC Press, , 2012- <2014->
ISBN	1-4987-6018-X 0-429-10242-9
Edizione	[1st ed.]
Descrizione fisica	1 online resource (318 p.)
Collana	Carbohydrate Chemistry
Altri autori (Persone)	KovacPavol <1938->
Disciplina	547.78
Soggetti	Carbohydrates -- Synthesis Organic Chemistry Chemistry Physical Sciences & Mathematics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Vol. 2 edited by: Gijsbert van der Marel, Jeroen Codee.
Nota di contenuto	""Front Cover""; ""Contents""; ""Foreword""; ""Introduction""; ""Editors""; ""Series Editor""; ""Contributors""; ""Chapter 1: Synthesis of Higher-Carbon Sugars Using the Phosphonate Methodology : Part I-Synthesis of Methyl (methyl 2,3,4-Tri-O-benzyl--d-glucopyranosid)uronate""; ""Chapter 2: Synthesis of Higher-Carbon Sugars Using the Phosphonate Methodology : Part II-Synthesis of Dimethyl (methyl 2,3,4-Tri-O-benzyl--d-gluco-heptopyranos-6-ulos-7-yl)phosphonate and Application for Carbon Chain Elongation"" ""Chapter 3: Preparation of Methyl, Butyl, Hexyl, and Octyl 2,3,4-Tri-O-acetyl-d-glucopyranuronates Using Microwave Irradiation""""Chapter 4: Metal-Free, Diamine-Mediated, Oxidative Monoamidation of Benzylated Carbohydrates""; ""Chapter 5: Metal-Free Oxidative Lactonization of Carbohydrates Using Molecular Iodine""; ""Chapter 6: Synthesis of Glycosyl Vinyl Sulfones for Bioconjugation""; ""Chapter 7: Synthesis of 5-Deoxy--d-galactofuranosides (5-Deoxy--l-arabino-hexofuranosides) Starting from d-Galacturonic Acid Using Photoinduced Electron Transfer Deoxygenation"" ""Chapter 8: Glycal Transformation into 2-Deoxy Glycosides""""Chapter 9: Regioselective Preparation of 4-Deoxy-erythro-hex-4-

enopyranoside Enol Ethers through Acetone Elimination"; "Chapter 10: Stereoselective Reduction Using Sodium Triacetoxyborodeuteride : Synthesis of Methyl 2,3-Di-O-benzyl-d-(4-2H)-glucopyranoside"; "Chapter 11: Selective Anomeric S-Deacetylation Using Aqueous Sodium Methanethiolate"; "Chapter 12: Glycosylation of Phenolic Acceptors Using Benzoylated Glycosyl Trichloroacetimidate Donors" "Chapter 24: Phenyl 2-O-acetyl-3-O-allyl-4-O-benzyl-1-thio-d-glucopyranoside, a Versatile, Orthogonally Protected Building Block"

#### Sommario/riassunto

Featuring contributions from world-renowned experts and overseen by a highly respected series editor, Carbohydrate Chemistry: Proven Synthetic Methods, Volume 3 compiles reliable protocols for the preparation of intermediates for carbohydrate synthesis or other uses in the glycosciences. Exploring carbohydrate chemistry from both the academic and industrial points of view, this unique resource brings together useful information into one convenient reference. To ensure reproducibility, an independent checker has verified the experimental parts involved by repeating the protocols or using the methods.