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1,2:5,6-Di-O-Cyclohexylidene- d -Mannitol and Its Bis(Trimethylsilyl) Ether in the Dithiophosphorylation Reactions

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Abstract

© 2016 Wiley Periodicals, Inc. The reaction of 2,4-diaryl 1,3,2,4-dithiadiphosphetane-2,4-disulfide with diketonide of d-mannitol has been found to give optically active bisaryldithiophosphonic acids transformed into the corresponding diammonium salts by the treatment of n-hexadecylamine. O,O-Bis(trimethylsilyl) ether of d-mannitol ketonide reacts with 2,4-diaryl 1,3,2,4-dithiadiphosphetane-2,4-disulfide to form chiral S,S-disilylbisaryldithiophosphonate. Diammonium bisaryldithiophosphonate possesses antibacterial activity against *Staphylococcus aureus* ATCC 6538-P.

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