

Synthesis of Glycosyl Cyanides by the Reaction of 1-*S*-Phosphorothioates of Carbohydrates with Trimethylsilyl Cyanide

Wiesława Kudelska

Institute of Chemistry, Faculty of Pharmacy, Medical University of Łódź,
90-151 Łódź, Muszyńskiego 1, Poland

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A new procedure is described for the synthesis of α,β -glycosyl cyanides by the reaction of per-*O*-benzylated *S*- α -D-glycopyranosyl phosphorothioates with trimethylsilyl cyanide in the presence of Lewis acid. Starting *S*-glycosyl phosphorothioates are prepared, directly, from *O*-benzyl protected reducing D-hexopyranoses (gluco-, galacto-, manno-) and alkylammonium salt of phosphorothioic acid under Lewis acid catalysis.

* Reprint requests to Dr. W. Kudelska.