

Darstellung von phosphorylierten Glucosiden durch Umsetzung am Glucosegerüst sowie am Aglycon

Synthesis of Phosphorylated Glucosides through Reaction at the Glucose Framework and at the Aglycon

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The reaction of $\text{Me}_2\text{P}(\text{:X})\text{H}$ [$\text{X} = \text{O}$: **1**; $\text{X} = \text{S}$: **4**] with paraformaldehyde furnished the α -hydroxyphosphine oxide **2** and sulfide **5** which, upon treatment with p-toluenesulfonyl chloride, were converted into the tosylated derivatives **3** and **6**. The diphosphorylated glucosyl compound **8** was synthesized by reaction of two equivalents of tosylated phosphine oxide **3** with benzyl 4,6-O-benzyliden- α -D-glucopyranoside **7**. The spacer phosphorylated glucosyl derivatives **10** and **11** were formed in the reaction of γ -bromopropyl-2,3,4,6-tetra-O-benzyl- β -D-glucopyranoside **9** with triethylphosphite and triphenylphosphine.