



Reactivity and crystal structure of 1,2:3,4:5,6-tri-*O*-isopropylidene-*D*-gluconolactone.

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Streszczenie

1,2:3,4:5,6-Tri-*O*-isopropylidene-*D*-gluconate (1) undergoes the beta-elimination reaction in the presence of LDA to afford 3-deoxy-1,2:5,6-di-*O*-isopropylidene-*D*-erythro-hex-3-enolactone (6). Attempts to prepare the phosphonate 4 by reaction of 1 with dimethyl methylphosphonate in the presence of LDA failed; only elimination product 6 was isolated from the reaction mixture. The sugar phosphonate 8 (protected form of 4) was prepared from methyl 2-*O*-benzyl-3,4:5,6-di-*O*-isopropylidene gluconate (7) by reaction with (-)-CH₂P(O)(OMe)₂. The crystal structure of 1 is reported.

Słowa kluczowe

gluconolactone triacetone, sugar phosphonates, beta-elimination