

THE SYNTHESIS OF GLUCOPYRANOSYLTHIOUREAS FROM RHODANINES

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Perkin condensation of rhodanine (I) and benzaldehyde derivatives (II) gave 5-benzylidene-rhodanines (III). The products were further reacted with α -D-acetobromoglucose to yield tetraacetyl glucosides (IV) which were finally treated with ammonia (ammonolysis) or amines (aminolysis) to produce β -D-glucopyranosylthioureas (V) as shown in the following scheme. Details of the reactions will be discussed.

