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论文

甾体激素 I.物质S醋酸酯合成的改进

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摘要:

改进了自16a,17a-环氧-5-孕甾烯-3 β -醇-20-酮(I)經五步反应合成物质S醋酸酯(VI)的方法,总收率达到45%理論。对(III_b)脱溴一步,提出了应用醋酸銨为緩冲剂,在醇溶液中以較少量的Raney鎳为催化剂,在常压下进行选择性的氫解获得成功。

关键词:

STEROID HORMONES—— I .IMPROVED SYNTHESIS OF SUBSTANCE S ACETATE

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Abstract:

The synthesis of substance S acetate (VI) from 16a, 17a-epoxypregn-5-en- 3β -ol-20-one (I) by a 5-step process was improved to give an overall yield of 45 per cent. For the debromination of the bromohydrin (IIIb), hydrogenolysis was carried out under ordinary pressure in an alcoholic solution in the presence of a moderate amount of Raney nickel catalyst. An alcoholic solution of ammonium acetate which served as buffer was dropped into the mixture at a steady rate. Thus, the course of reaction was under control, and, at the same time, hydrogenation made selective.

Keywords:

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