

氯屈膦酸二钠合成工艺改进

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摘要 目的:对氯屈膦酸二钠的合成工艺进行了研究。方法:以二溴甲烷和亚膦酸三异丙酯为原料,经缩合、氯化、热裂解和成盐反应得到氯屈膦酸二钠。结果:合成产物的化学结构经元素分析、红外光谱、质谱和核磁共振谱确证,总收率为 60.3%。结论:此合成路线是完全可行的。

关键词 氯屈膦酸二钠;合成;热裂解

Improved synthesis of clodronate

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ABSTRACT **OBJECTIVE:** To study the synthesis of clodronate. **METHODS:** Clodronate was synthesized by steps of condensation, chloration, pyrolysis and salifying from dibromomethane and triisopropyl phosphite. **RESULTS:** The chemical structure of synthetic product was confirmed by element analysis, IR, MS, and ³¹PNMR. **CONCLUSION:** This synthetic route is practical.

KEY WORDS clodronate, synthesis, pyrolysis

