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论文

间二苯胍衍生物的合成

宋伟,陆晓峰,陆国元

南京大学化学系,配位化学国家重点实验室,南京210093

摘要:

通过间二苯氯衍生物和二甲酰胺钠的亲核取代及水解方便地制备了相应的间二苯胺。后者与甲基异硫脲作用生成间二苯胍硫酸盐,经离子交换得到相应的间二苯胍盐酸盐。

关键词: 胍; 双胍; 二胺; 合成

Synthesis of Phenylenedimethylene Bis(guanidiniums) Derivatives

SONG Wei, LU Xiao-Feng, LU Guo-Yuan*

Department of Chemistry, State Key Laboratory of Coordination Chemistry, Nanjing University, Nanjing 210093, China

Abstract:

Naturally occurring and synthetic compounds containing guanidine display a wide range of biological activities and are used as a receptor for organic anions. This paper reports the synthesis of phenylenedimethylene diamines and bis(guanidiniums) derivatives. The phenylenedimethylene diamine derivatives were prepared by the reaction of phenylenedimethylene dichloride with sodium diformamide and then hydrolyzing with hydrochloric acid/ethanol solution. The diamines were respectively treated with S-methylisothiurea sulfate to give the corresponding phenylenedimethylene bis(guanidiniums) sulfate, and then they were converted to the corresponding chlorides by ion-exchange process. ¹H NMR spectra and ESIMS data indicate that they display a stronger interaction with organic anions.

Keywords: Guanidine; Bis(guanidiniums); Diamine; Synthesis

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通讯作者: 陆国元(1945年出生),男,教授,博士生导师,从事有机合成和超分子化学研究. E-mail:

Lugyuan@nju.edu.cn

作者简介:

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