



六(4-乙氧羰苯氧基)三聚磷腈的合成研究

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Studies on the synthesis of hexakis(4-carboxylic acid ethyl ester phenoxy)cyclotriphosphazenes

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摘要 合成了一种新的高分子模型化合物——六(4-乙氧羰苯氧基)三聚磷腈,用红外光谱、核磁共振氢谱、碳谱和质谱证实了该中间体的结构,用正交试验优化了该中间体的合成方法.结果表明,合成六(4-乙氧羰苯氧基)三聚磷腈的较好方法为:以2.4 g K₂CO₃为催化剂,用1 g六氯三聚磷腈与3.5 g对羟基苯甲酸乙酯在丙酮中回流8 h,产率为93.9%.

关键词: 六(4-乙氧羰苯氧基)三聚磷腈 合成方法 正交试验

Abstract: Hexakis(4-carboxylic acid ethyl ester phenoxy)cyclotriphosphazenes,a new model compound for phosphazene high polymers was synthesized.Its structure was characterized by IR,¹HNMR,¹³CNMR,DEPT and FABMS.The synthetic method was optimized with orthogonal test.The results indicated that the appropriate synthetic method was a follows: the title compound was prepared by reaction of hexachlorocyclotriphosphazene(1 g)with ethyl 4-hydroxybenzoate(3.5 g)in the presence of K₂CO₃(2.4 g)as a catalyst and acetone as a solvent at refluxing temperature for & 8 h.The yield of the product was 93.9%.

Key words: hexakis(4-carboxylic acid ethyl ester phenoxy)cyclotriphosphazene synthetic method orthogonal test

收稿日期: 2005-05-30;

基金资助:国家自然科学基金资助项目(20364002);中国科学院“西部之光”人才培养资助项目

引用本文:

毕韵梅,遇丽,杨海燕等. 六(4-乙氧羰苯氧基)三聚磷腈的合成研究[J]. 云南大学学报(自然科学版), 2005, 27(5): 421-423.

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编辑出版：云南大学学报编辑部（昆明市翠湖北路2号，650091）

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