本期目录 | 下期目录 | 过刊浏览 | 高级检索

[打印本页] [关闭]

#### 论文

氯霉素之合成研究(二) 乙苯之硝化反应

沈家祥;张晏清;周秉文;陈汝凤;袁上太;周乙源;詹琳

东北制药总厂研究室,\*\*化工部天津化工研究所;\*\*\*中国科学院石油研究所;\*\*\*\*医药工业设计院;\*\*\*\*\*长春东北人民大学化学系

摘要:

使用硫酸脱水值为2.66的混酸进行乙苯的一硝基化。自硝化产物中分离出佔0.4%重量的檸檬黄色結晶,系一种未經报导过的二硝基乙苯酚.自稀乙醇重結晶后,熔点35~38°,元素分析与 $C_8H_8N_2O_5$ 相符。此化合物在270°迅速分解,其鈉鹽和鉛鹽則分別在240°和210°猛烈分解。作为安全措施,建議在蒸餾之前用稀氫氫化鈉溶液洗滌硝化产物。分餾所得隣、对一位硝基乙苯約相等。精制品的物理常数:鄰位体, $n_D^{19}1.5373$ ;紫外光吸收峯256mu, $E_{1cm1\%_{336}}$ 对位体, $n_D^{19}1.5458$ ;紫外光吸收峯272mu,E 关键词:

# STUDIES RELATED TO THE SYNTHESIS OF CHLORAMPHENICOL II NITRATION OF ETHYLBENZENE

SHEN CHIA-CHIANG CHANG IAN-TZING CHOU BIN-WEN CHEN JU-FONG YUAN SHANG-TAI CHOU I-YUAN ZHAN LING

#### Abstract:

Mononitration of ethylbenzene was carried out with mixed acid of D. V. S. 2.66. A so far unreported dinitro-ethylphenol was isolated as lemon yellow coloured crystals, up to the amount of 0.4% by weight, from the nitration product. After being recrystallized from aqueous ethanol, it had m. p. 35 to 38°, with analysis corresponded closely to  $C_8H_8N_2O_5$ . The compound decomposed rapidly at 270°; its sodium and lead salt decomposed at 240° and 210° respectively with violence. Therefore; washing the nitration product with dilute sodium hydroxide solution prior to its distillation was suggested as a matter of safety precaution. Upon fractionation under reduced pressure, almost equal parts of o-nitroethylbenzene and p-nitroethylbenzene were obtained. Physical constants of highly purified samples were: o-isomer,  $n_D^{-19}$  1.5373; light absorption, maximum at 256mµ,  $E_{1cm}^{-1}$  336. p-isomer,  $n_D^{-19}$  1.5458; light absorption, maximum at 272mµ,  $E_{1cm}^{-1}$  555. The refractive index of o-nitroethylbenzene recorded in literature seemed to be erroneous.

#### Keywords:

收稿日期 1958-04-14 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者:

作者简介:

参考文献:

本刊中的类似文章

文章评论 (请注意:本站实行文责自负,请不要发表与学术无关的内容!评论内容不代表本站观点.)

### 扩展功能

## 本文信息

- ▶ Supporting info
- ▶ PDF(179KB)
- ▶[HTML全文]
- ▶参考文献

#### 服务与反馈

- ▶ 把本文推荐给朋友
- ▶加入我的书架
- ▶加入引用管理器
- ▶引用本文
- ▶ Email Alert
- ▶ 文章反馈
- ▶浏览反馈信息

# 本文关键词相关文章 本文作者相关文章

- ▶ 沈家祥
- ▶ 张晏清
- ▶周秉文
- ▶ 陈汝凤
- ▶袁上太
- ▶周乙源
- ▶詹琳

#### PubMed

- Article by

反馈人	邮箱地址	
反馈标题	验证码	7281

Copyright 2008 by 药学学报