

热力学

4-羟基苯甲醛及其溴代物在氯仿中溶解度测定和关联

魏东炜, 姜浩锡, 井欣, 袁继堂

天津大学石油化工技术开发中心, 天津 300072

收稿日期 2003-11-13 修回日期 2004-2-12 网络版发布日期 2008-9-1 接受日期

摘要

关键词 [溶解度](#) [4-羟基苯甲醛](#) [3-溴-4-羟基苯甲醛](#) [3,5-二溴-4-羟基苯甲醛](#) [氯仿](#) [缔合](#) [关联](#)

分类号

MEASUREMENT AND CORRELATION OF SOLUBILITIES OF 4-HYDROXYBENZALDEHYDE AND ITS BROMO-DERIVATIVES IN CHOROFORM

WEI Dongwei,JIANG Haoxi,JING Xin,YUAN Jitang

Abstract

Solubilities of 4-hydroxybenzaldehyde, 3-bromo-4-hydroxybenzaldehyde, 3,5-dibromo-4-hydroxybenzaldehyde in chloroform were measured at temperatures ranging from 283.15K to 323.15K. The measurements of temperature and enthalpy of fusion of pure solutes were used for caculation of solubility by ideal solution model, which was higher than the experimental values. The very low solubility in chloroform was due to self association of solute molecules. A λh formula was used to fit the data and had shown good correlation results.

Key words [solubility](#) [4-hydroxybenzaldehyde](#) [3-bromo-4-hydroxybenzaldehyde](#) [3,5-dibromo-4-hydroxy-benzaldehyde](#) [chloroform](#) [association](#) [correlation](#)

DOI:

通讯作者 魏东炜 weidwei@eyou.com

扩展功能

本文信息

▶ [Supporting info](#)

▶ [PDF\(400KB\)](#)

▶ [\[HTML全文\]\(0KB\)](#)

▶ [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](#)

▶ [复制索引](#)

▶ [Email Alert](#)

▶ [文章反馈](#)

▶ [浏览反馈信息](#)

相关信息

▶ [本刊中 包含“溶解度”的
相关文章](#)

▶ [本文作者相关文章](#)

- [魏东炜](#)
- [姜浩锡](#)
- [井欣](#)
- [袁继堂](#)