

研究简报

锂盐阴离子和不同侧基的15-冠-5系冠醚对锂盐/冠醚固态配合物远红外位移的影响

温永红¹, 杨恩波², 傅立安¹, 方胜强¹

1. 兰州大学化学化工学院, 兰州 730000;
2. 中国原子能科学研究院, 北京 102413

收稿日期 2006-6-10 修回日期 网络版发布日期 2007-2-2 接受日期

摘要 按文献的方法研究了锂盐阴离子和不同侧基的15-冠-5系冠醚对四种锂盐/冠醚固态配合物远红外位移的影响.

关键词 [锂盐/冠醚的固态配合物](#) [远红外位移](#) [锂同位素](#) [相对约化配分函数比\(s/s'\)f](#)

分类号 [0611.7](#)

Influence of Lithium Salts Anion and Sidegroup of 15-Crown-5 Series on the Far IR Shift of Solid Lithium Complexes with Crown Ethers

WEN Yong-Hong¹, YANG En-Bo², FU Li-An¹, FANG Sheng-Qiang¹

1. College of Chemistry and Chemical Engineering, Lanzhou University, Lanzhou 730000, China;
2. Institute of Atomic Energy Science, Beijing 102413, China

Abstract Two reduced sequences of $(s/s')f$ (relative reduced partition function ratio) found in the present paper are $\text{LiSCN} \cdot \text{B15C5} > \text{LiCCl}_3\text{COO} \cdot \text{B15C5} > \text{LiClO}_4 \cdot \text{B15C5}$ and $\text{LiClO}_4 \cdot 4\text{-mB15C5} > \text{LiClO}_4 \cdot \text{B15C5} > \text{LiClO}_4 \cdot \text{Ph15C5}$, respectively. These solid lithium complexes with crown ethers were separated from tetrahydrofuran for the first sequence and from 3-methyl-1-butanol for the second one, respectively. According to the analysis of the data obtained, an independent character of the three factors (solvents, anion of lithium salts, and the sidegroup of 15C5 series), playing a part in contribution to $(s/s')f$, have been brought to light preliminarily.

Key words [Solid lithium complex with crown ethers](#) [Far infrared shift](#) [Lithium isotopes](#) [Relative reduced partition function ratio \(s/s'\)f](#)

DOI:

通讯作者 方胜强 fangsq@lzu.edu.cn

扩展功能

本文信息

- ▶ [Supporting info](#)
- ▶ [PDF\(270KB\)](#)
- ▶ [\[HTML全文\]\(0KB\)](#)
- ▶ [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“锂盐/冠醚的固态配合物”的相关文章](#)
- ▶ [本文作者相关文章](#)

- [温永红](#)
- [杨恩波](#)
- [傅立安](#)
- [方胜强](#)