

## Chelate Extraction of Metals into Ionic Liquids

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In the solvent extraction of metal cations into ionic liquids, use of Brønsted acid-type chelate extractants has some advantages including simplicity in controlling extraction selectivity by selecting suitable aqueous phase pH values and simple back-extraction recovery of the extracted metals using acid solutions. In this review, various fundamental and applied research on metal extraction using the “ionic liquid chelate extraction system” since 2001 are described in detail.

### 1. Introduction

Solvent extraction of metal cations is a very important technique for their mutual separation, recovery and preconcentration [1–6]. In solvent extraction, generally, various hydrophobic organic solvents are used as extraction phase solvents. However, most of the solvents are toxic, flammable and volatile, and it has been recommended that their use as solvents should be avoided.

Ionic liquids (ILs), hydrolytically stable salts with low melting points (ca. < 100 °C), have recently been noted as ‘green’ solvents mainly in organic chemistry and catalysis chemistry [7–22]. In particular, a series of ILs made from 1-alkyl-3-methylimidazolium cations ( $C_n\text{mim}^+$ ) and bulky fluorinated anions such as hexafluorophosphate ( $\text{PF}_6^-$ ), tetrafluoroborate ( $\text{BF}_4^-$ ) and bis(trifluoromethanesulfonyl)imide ( $\text{TiF}_2\text{N}^-$ ) have been assessed as valuable solvents because they have relative air and water stability and favorable viscosity and density as solvents. Furthermore, some of them such as  $[C_n\text{mim}][\text{PF}_6]$  (**1a**,  $n \geq 4$ ) and  $[C_n\text{mim}][\text{TiF}_2\text{N}]$  (**1b**,  $n \geq 2$ ) are immiscible with water and, therefore, can possibly be used as extraction solvents. In addition, many ILs have unique physical and chemical properties as solvents, such as high polarity and, therefore, are expected to be not only ‘alternative’ solvents but also ‘novel’ ones.

The use of ILs in solvent extraction was reported for organic materials by Huddleston et al. in 1998 [23] and for metal cations by Dai et al. in 1999 [24]. Many researchers have studied the use of ILs in extraction, and various reviews have been published [25–40]. Many of the metal extraction studies have



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## **Table of Contents Extraction Of Chelate Compounds**

1. Understanding the eBook Extraction Of Chelate Compounds
  - The Rise of Digital Reading Extraction Of Chelate Compounds
  - Advantages of eBooks Over Traditional Books
2. Identifying Extraction Of Chelate Compounds
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Extraction Of Chelate Compounds
  - User-Friendly Interface
4. Exploring eBook Recommendations from Extraction Of Chelate Compounds
  - Personalized Recommendations
  - Extraction Of Chelate Compounds User Reviews and Ratings
  - Extraction Of Chelate Compounds and Bestseller Lists
5. Accessing Extraction Of Chelate Compounds Free and Paid eBooks
  - Extraction Of Chelate Compounds Public Domain eBooks
  - Extraction Of Chelate Compounds eBook Subscription Services

- Extraction Of Chelate Compounds Budget-Friendly Options
- 6. Navigating Extraction Of Chelate Compounds eBook Formats
  - ePub, PDF, MOBI, and More
  - Extraction Of Chelate Compounds Compatibility with Devices
  - Extraction Of Chelate Compounds Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Extraction Of Chelate Compounds
  - Highlighting and Note-Taking Extraction Of Chelate Compounds
  - Interactive Elements Extraction Of Chelate Compounds
- 8. Staying Engaged with Extraction Of Chelate Compounds
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Extraction Of Chelate Compounds
- 9. Balancing eBooks and Physical Books Extraction Of Chelate Compounds
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Extraction Of Chelate Compounds
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Extraction Of Chelate Compounds
  - Setting Reading Goals Extraction Of Chelate Compounds
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Extraction Of Chelate Compounds
  - Fact-Checking eBook Content of Extraction Of Chelate Compounds
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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