

Chelate Extraction of Metals into Ionic Liquids

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(Received February 1, 2011; Accepted February 25, 2011)

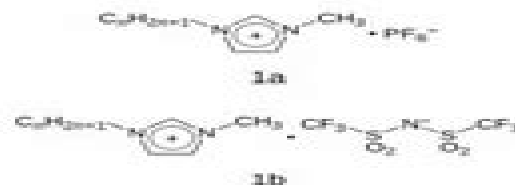
In the solvent extraction of metal cations into ionic liquids, use of Brønsted acid-type chelate extractants has some advantages including simplicity in controlling extraction selectivity by selecting suitable aqueous phase pH values and simple back-extraction recovery of the extracted metals using acid 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 (PF_6^-), tetrafluoroborate (BF_4^-) and bis(trifluoromethanesulfonyl)imide (TiF_2N^-) 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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