

Contents

List of symbols, acronyms and abbreviations	xi
1 Conductance of ionic conductors	1
1.1 Definition of ionic conductance	1
1.2 Theory of ionic conductance	4
1.3 Measurement of ionic conductance	7
1.4 Ionic conductance of molten salts	10
Table 1.4.1 Ionic conductivities of molten inorganic salts	10
Table 1.4.2 Ionic conductivities of molten mixtures of inorganic salts	14
Table 1.4.3 Ionic conductivities of molten organic salts	21
Table 1.4.4 Ionic conductivities of molten mixtures of organic salts	22
1.5 Ionic conductance of ionic liquids	24
Table 1.5.1 Ionic conductivities of ionic liquids	26
Table 1.5.2 Ionic conductivities of solutions with ionic liquids as solvent and a solute (for binary mixtures of two liquids (at least one of them an ionic liquid) see following table)	261
Table 1.5.3 Ionic conductivities of binary mixtures with ionic liquids	300
Table 1.5.4 Ionic conductivities of gelled and polymerized ionic liquids	573
Table 1.5.5 Transport numbers of ions in ionic liquids	590
Table 1.5.6 Limiting conductivities of ionic liquids in solvents	592
Table 1.5.7 Acronyms used to name anions, cations and major fragments of them in ionic liquids	596
1.6 Ionic conductance of deep eutectics	see subvolume B2
1.7 Ionic conductance of electrolyte solutions	see subvolume B2
References	657