

MOSATOR© - Topoenergetic Data Banks on molten salts properties driven by temperature and composition

Molten salts represent an important chapter of the interface between physics and chemistry. IUPAC makes account off these materials due by the huge number of scientists involved in studying their properties in view to establish practical applications.

There are several databases of basic experimental data concerning temperature and composition dependences of important properties of pure molecular and mixtures of molten salts. These properties are: density, viscosity, electric conductance, surface tension, etc.

GDF-DATA BANKS intends to launch the first issue of **MOSATOR©** - data banks on molten salts properties obtained by retrieving basic experimental data according to the topoenergetic procedures.

DIFFUTOR© issued in our Bulletin (Vol.2, No.3, 1998) is a similar data bank containing both basic experimental data of diffusion in pure metals as a function of temperature collected from literature and kinetic parameters obtained both by Arrhenius and topoenergetic universal representation.

VAPORSAT© (Vol.2, No.4, 1998) presents also the Arrhenius and topoenergetic kinetic parameters of thermally driven on vapor-liquid equilibrium data for 100 simple molecules. Structural and practical significances of the two already done data banks are presented in a separated volume (Vol.3, No.1, 1999) distributed as free (see the advertisements in this volume).

As these data banks, **MOSATOR©** will present the kinetic parameters with their associated standard uncertainties, degrees of freedom and figures of merit as these result from retrieval procedure.

MOSATOR© evidences proper melting point of each pure salt or mixture as it results from each dependence property(temperature), comparative nature of the process evidenced by these dependences and property(composition) and structural details. These significances will be clearly explained in an introductory chapter, but in addition for each family of pure salts or mixtures defined by phylogenic parameters.

Taking into account that some series of data are obtained by different experimental procedures for the same property, **MOSATOR©** will evidence their specific characteristics allowing to conclude on their consistence.

The exact date of its appearance will be announced in the next issue.