

*To my parents*

The thesis entitled "Solute-solvent interactions from transport studies" submitted to the University of Calcutta for the Degree of Doctor of Philosophy (Science) consists of the following parts :

PART 1 : Viscosity B coefficient studies.

PART 2 : Extension of the principle of additivity of viscosity B coefficients to mixtures of weak acids and their salts.

PART 3 : Shape of humic substances isolated from soil from viscometry.

PART 4 : Diffusion studies.