

CONTENTS

Page Nos.

CHAPTER 1:	INTRODUCTION	
	Chemistry of Binary Liquid Mixtures	
1.1	General	1
1.2	Viscosity of Binary Liquid Mixtures	29
1.3	Viscosity of Ternary Liquid Mixtures	42
1.4	Excess Volumes of Binary Liquid Mixtures	47
1.5	Excess Volumes of Ternary Liquid Mixtures	52
1.6	Ultrasonic Velocity in Binary Liquid Mixtures	63
1.7	Sound Velocity in Ternary Liquid Mixtures	75
1.8	Present Work	79
	References	82

	Page Nos.
CHAPTER 2: Experimental	
2.1 Viscosity Measurements	93
2.2 Practical Details	96
2.3 Density Measurements	98
2.4 Ultrasonic Velocity Measurement	101
2.5 Present Work	102
2.6 Precautions Taken	105
References	106
CHAPTER 3: Viscosity and Density Studies of Binary and Ternary Liquid Mixtures	
3.1 Theory of Liquid Mixtures	107
3.2 Experimental	140
3.2.1 Materials	140
3.2.2 Measurements	142
3.3 Results	145
3.4 Discussion	148

	Page Nos.
References	175
CHAPTER 4: Ultrasonic Velocity Studies of Binary and Ternary Liquid Mixtures	
4.1 Acoustics of Liquid Mixtures	192
4.2 Experimental	205
4.3 Results	207
4.4 Discussion	213
References	225
SUMMARY	I - IX