

CONTENTS

Chapter	Topic	Page No.
	Preface	i
	Acknowledgement	iii
I	Mesogens and the purpose of the present investigation	1
II	Characterization of Mesophases: Experimental Techniques	36
III	Bis[4-(<i>n</i> -alkyloxyphenyl)]diazene oxide: synthesis, characterization, structure and mesogenic behaviour	47
IV	Bis[4-(<i>n</i> -alkyloxybenzoyloxy)phenyl]- diazene oxide: synthesis, characterization, structure and mesogenic behaviour	88
V	Mesogenic Triazene-1-oxides with aldimine and ester units: synthesis, characterization and thermal properties	111
VI	Mesogenic triazene-1-oxide with two ester units: synthesis, characterization, structure and thermal properties	135
	Summary	159
	Appendix	