

Table of Contents

| Contents | Page Nos. |
|--|---------------------|
| Abstract | i-iv |
| Preface | v |
| List of Tables | viii-ix |
| List of Schemes | x |
| List of Figures | xi-xvi |
| List of Appendices | xvii |
| Appendix A | xviii-xxv |
| Appendix B | xxvi-xxix |
| Appendix C | xxx-xxxii |
| Appendix D | xxxiii-xxxiv |
| Appendix E | xxxv |
| Appendix F | xxxvi |
| | |
| Chapter I | 1-24 |
| Introduction and review of previous works | |
| Chapter II | 25-28 |
| Scope and Objective | |
| Chapter III | 29-52 |
| Modification of aggregation characteristics of cationic surfactants by hydroxy aromatic derivatives of naphthalene under salt-free condition | |
| Chapter IV | 53-77 |
| Surface activity and modifying effects of 1 Naphthol, 2 Naphthol and 2,3-Dihydroxynaphthalene on self-assembled nanostructures of 1-Hexadecyl-3-methylimidazolium chloride | |
| <i>Colloid Surfaces A.</i> , 2017 , 516, 262-273 | |
| Chapter V | 78-104 |
| Solvent induced molecular folding and self-assembled nanostructures of Tyrosine and Tryptophan analogues in aqueous solution | |
| <i>Langmuir</i> , 2017 , 33, 6581-6594 | |

| | |
|---|----------------|
| Chapter VI | 105-135 |
| Interaction of tyrosine analogues with quaternary ammonium head group at micelle/water interface and their influence on aggregation characteristics of cationic micelles | |
| Chapter VII | 136-154 |
| Interaction of a tryptophan analogue with quaternary ammonium head group at micelle/water interface and its influence on aggregation characteristics of cationic micelles | |
| Bibliography | 155-192 |
| Index | 193-194 |
| Reprints of Chapter IV and V | |