

CHAPTER V

CONCLUSIONS AND RECOMMENDATIONS

The second subsaturated surfactant (NaDS), which the concentration is less than its saturated surfactant solution, can act as an effective wetting agent in saturated solution of the first surfactant (CaC_{12}). When the contact angle were determined with varying the concentration of NaDS in the saturated CaC_{12} solution, the breakpoint of the slope of contact angle curve of surfactant mixture containing the saturated and subsaturated surfactant as a function of subsaturated surfactant is defined as the CMC of surfactant mixture. Thus the contact angle plot can be a new way to obtain the CMC of surfactant mixture. Adsorption of the second subsaturated surfactant at solid/liquid interface was as much as liquid/vapor interface that caused the Young's equation to deviate.