

## CHAPTER V

### CONCLUSIONS

In the microemulsion phase behavior part, the aerosol OT concentration in microemulsion phase is decreased when the percent of salinity is increased. However, the total mole of aerosol OT is rather constant. Volume of the microemulsion phase is increased due to more solubilization of n-decane in microemulsion phase with increasing percent of salinity and further increases with increasing percent weight of aerosol OT. On approaching the phase transition line, the result of microemulsion without excess n-decane phase covering system shows aerosol OT adsorption decreases and n-decane solubilization increases. The result of microemulsion with excess n-decane phase covering system indicates aerosol OT adsorption also decreases and n-decane adsolubilization also increases. Furthermore, the latter system also indicates diffusion of aerosol OT and n-decane from excess n-decane phase into the microemulsion phase.