

CHAPTER V

CONCLUSIONS

- The maximum coverage of bonded HFD monolayer on silica surface (260 $\mu\text{moles/g}$) is lower than that of bonded ODS (430 $\mu\text{moles/g}$).
- The adsolubilization properties of bonded HFD appear to have the same trends as those of bonded ODS. The adsolubilization by bonded ODS is higher than that by bonded HFD. In the same monolayer, TCE adsolubilizes to a greater extent than does phenol.
- For the stability studies, both bonded HFD and bonded ODS have high stability under the agitation speed up to 450 rpm, agitation time up to 2 hr, temperature up to 70°C, and a wide range of pH values.
- The stability of bonded HFD is much higher than that of bonded ODS in the presence of ozone.