

CHAPTER V

Conclusions

The following conclusions are drawn from this study:

1. Mercury compounds, mercuric chloride and diphenylmercury, soluble in liquid hydrocarbon can be removed by catalytic hydrodemetallation reaction.
2. Mercury compound removal capability of different catalysts, $\text{CoMo}/\text{Al}_2\text{O}_3$ and $\text{NiMo}/\text{Al}_2\text{O}_3$ catalysts, and temperature dependency can not be definitely distinguished due to different mercury compound feed concentration in catalyst bed.
3. Mercury compounds adsorb on reactor wall and other parts of reactor system which is made of 316 stainless steel and cause a drastic decrease in mercury compound concentration in liquid feed before it reach catalyst bed.
4. The quantity of deposited mercury on the surface of the reactor depend on the temperature and types of mercury compound.

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