

### The removal of sulfur compounds using various AC adsorbents

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To simultaneous removal of sulfur compounds, such as methyl mercaptan, ethyl mercaptan, dimethyl disulfide and diethyl disulfide from C4 gases in FCC process, the various activated carbon adsorbents impregnated potassium carbonate were tested in micro reactor at 1 atm at 30~50°C. The various AC adsorbents impregnated potassium carbonate showed a good ability better than AC adsorbents. Especially, the KAC adsorbent showed a good ability to simultaneously removal sulfur compounds better than other metal adsorbents. Also the sulfur removal ability was affected by surface area and pore size distribution of ACs. The sulfur removal abilities of various AC adsorbents were discussed with the analysis results.