

### Phenol hydroxylation using Fe-contained MCM-41 catalysts

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A series of Fe-MCM-41 catalyst were prepared by hydrothermal synthesis. Phenol hydroxylation was carried out under a variety of experimental conditions, and the effects of such parameters as reaction temperature, solvent, calcination temperature and amount of oxidant and catalyst. Comparison of hydroxylation activity was also made using TS-1, and other Fe oxide nanoparticles.