

质谱在石油化工、环境保护、产品质量等领域中的应用

神东煤与木屑共液化油中含杂原子化合物的GC/MS分析

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摘要

关键词

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Analysis of Heteroatom-Contained Compounds in Oil Product Derived from Coliquefaction of Shendong Coal and Sawdust by GC/MS

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Abstract The liquid product derived from coliquefaction of Shendong coal and sawdust was separated into several groups by employing open-column technique. And the heteroatom-contained compounds were isolated and analyzed with Varian GC/MS 4000. The results show that the heteroatom-contained can be determined in F₂ to F₆ fractions, and the phenol and its derivatives from F₂ predominate the oxygen-contained compounds. The aliphatic esters and aromatic esters subsequent dominate the oxygen-contained compounds from F₃, F₄ and F₆. The minority of Nitrogen- and Sulphur-contained compounds are quinoline and sulfides.

Key words Coliquefied oil GC/MS Shendong coal sawdust

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