

SYMPOSIUM ON GEOCHEMISTRY AND CHEMISTRY OF OIL SHALE  
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THE NITROGENEOUS COMPONENTS IN SHALE OIL

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ABSTRACT

Nitrogen-containing compounds in shale oil were concentrated by  $\text{FeCl}_3$ -clay complexation chromatography. Similarly the nitrogen compounds were also investigated from petroleum as well as coal liquids. Comparison was made for different nitrogen homologues which were identified by GC-MS. Chemical structures of pyridine homologues, and their benzologues, aromatic amines, indoles, etc. will be discussed.