

SEPARATION OF POLYCYCLIC HYDROCARBONS FROM GEORGIAN OILS

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A novel method for the isolation of polycyclic aromatic hydrocarbons (PAHs) from Georgian petroleum has been developed. Our method is a combination of photo-chemical condensation of petroleum PAHs via reaction with maleic anhydride, followed by photodecomposition of resulted photo-adducts. Extraction with gas-liquid chromatography constitutes a final step for isolation narrow fractions of phenanthrene, naphthalene and benzene. Subsequent analysis of separated compounds was performed using gas-liquid chromatography, mass-spectrometry, chromato-mass spectrometry and spectrofluorimetry. Our method can be successfully used for petroleum-derived materials as well as for crude petroleum.

ФУНКЦІОНАЛІЗАЦІЯ НЕФУНКЦІОНАЛЬНИХ РІДКИХ КАУЧУКІВ

Єрмольчук Л.В., Бойко В.П., Грищенко В.К., Лебедєв Є.В.

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Дешеві нефункціональні рідкі каучуки, які здебільшого отримують методами аніонної або іонно-координаційної полімеризації,