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摘要: 选择一系列结构上具有代表性的烃类化合物, 配制不同浓度的溶液, 以及它们不同浓度的重整汽油溶液, 在中红外, 短波近红外和长波近红外光谱仪上, 分别测定溶液的中红外光谱、短波近红外光谱和长波近红外光谱。采用相关分析方法对中红外光谱和近红外光谱进行关联, 确立重整汽油各结构基团吸收谱带在近红外短波区及长波区的精确位置, 并考察化学环境和物理环境对谱带位置的影响。

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Measuring the NIR spectrum wavelength of petroleum products by correlation analysis

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Abstract: Selecting many pure compounds representing the various C-H species such as aromatics, methyl, methylene, and olefin occurring in petroleum products. For each C-H species, the solutions with different concentrations were prepared, and their infrared spectra, short wavelength near infrared spectra and long wavelength near infrared spectra were determined respectively. The near infrared absorption attachments for each C-H species of reforming gasoline were determined by correlation analysis method.

Key words:

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