

## Amino-imidazolium Stationary Phase for High-performance Liquid Chromatography

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An amino-imidazolium stationary phase based on silica was synthesized and in this study. The materials have been determined by Fourier transform infrared (FT-IR), thermogravimetric analysis (TGA), element analyzer (EA). The material with ionic and amino groups exhibited a capacity of separation for high-performance liquid chromatography. Resolutions and adsorption isotherms of several organic compounds were examined by the stationary phase. Furthermore, the novel stationary phase shows a potential to separate compounds from natural plants.