

Oxidative Carbonylation of Aniline Using Polymer Supported Methylselenite

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Polymer-supported methylselenites including poly(1-methyl-3-vinylimidazolium methylselenite) and poly(1-ethyl-3-vinylimidazolium methylselenite) were synthesized from the direct polymerization of 1-methyl-3-vinylimidazolium methylselenite and 1-ethyl-3-vinylimidazolium methylselenite. The results of Fourier Transform Infrared (FT-IR) spectra and thermogravimetric analysis (TGA) clearly showed that methylselenite is tightly immobilized on the imidazolium-based polymer. The catalyst recycle test showed that the supported catalyst can be reused at least up to five times with a moderate loss of activity.