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An Efficient Synthesis of Mono-*para*-Substituted Benzyl Ferrocene Derivatives

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Abstract

The direct alkylation of ferrocene (FC) can be achieved via a Friedel-Craft reaction using an alkyl halide and AlCl_3 ; however, this invariably leads to mixtures of mono- and poly-alkylated complexes. Here, we describe the synthesis of mono-substituted benzyl FC derivatives by a Friedel-Craft reaction utilizing environmentally benign substrates such as benzyl and allyl alcohol and a catalytic amount of Lewis acid in the absence of organic solvents. The use of molten FC, which plays the role of a solvent, proved a robust way to produce excellent yields of the mono-substituted FC derivatives. Furthermore, this novel synthetic method is very simple and offers great potential for the industrial-scale synthesis of FC derivatives.

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- Silvia González-Pelayo, Enol López, Javier Borge, Noemí Fernández, José Santos, Ivarez and Luis A. López, Ferrocene Decorated Phenol Derivatives by Trapping ortho-Quinone Methide Intermediates with Ferrocene, *European Journal of Organic Chemistry*, **2018**, 22, (2858-2862), (2018).

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if(window._satellite) { _satellite.pageBottom(); }
```

```
var _prum=[[id,'59e8fecb3847311aab7b23c6'],[mark,'firstbyte',(new Date()).getTime()]];function(){var s=document.getElementsByTagName('script')[0],p=document.createElement('script');p.async='async';p.src='//rum-static.pingdom.net/prum.min.js';s.parentNode.insertBefore(p,s);})();
```