CO~2(CO)~8/吡啶络合催化苯乙烯氢羧化反应的研究

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摘要 在苯乙烯氢羧化反应(Hydrocarboxylation)中,Co~2(CO)~8的催化活性很低, 吡啶的加入可显著提高催化活性,CO~2(CO)~8与吡啶的配比不同时,对 反应活性,收率和正, 异构产物的比例均有影响,而且与反应温度有关.此外,还观察了各种吡啶衍生物对氢羧化反应的影响. 关键词 苯乙烯 均相催化 羰基络合物 吡啶 钴络合物 络合催化 分类号 0643

Study on hydrocarboxylation of styrene using Co~2(CO)3/pyridine complex as catalyst

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Abstract The hydrocarboxylation of PhCH:CH2 with CO in MeOH under pressure catalyzed by Co2(CO)8 to give a mixture of PhCH2CH2CO2Me, MeCHPhCO2Me, and PhEt was greatly enhanced by the addition of pyridine or its alkyl-substituted derivatives The effects of temperature and pressure on the catalytic activity of pyridine were studied. The mechanism for the catalysis was discussed.

Key wordsSTYRENEHOMOGENEOUS CATALYSISCARBONYL COMPLEXPYRIDINECOBALTCOMPLEXCOMPLEX CATALYSIS

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