

4-*N,N*-二甲胺基吡啶促进乙酸钴-溴苄催化甲苯氧化

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摘要 以乙酸钴和溴苄为催化剂, 考察了三乙胺、2,6-二甲基吡啶、吡啶、4-羧基吡啶和 4-*N,N*-二甲氨基吡啶等不同含氮有机化合物对甲苯氧化反应的影响。结果发现 4-*N,N*-二甲氨基吡啶表现出促进效应, 并探讨了其促进机制。

关键词: 选择氧化 分子氧 甲苯 4-*N,N*-二甲胺基吡啶 溴苄

Abstract: The influence of different nitrous organic compounds, including triethylamine, 2,6-dimethylpyridine, 4-carboxylic pyridine, pyridine, and 4-*N,N*-dimethylamino pyridine (DMAP), on the oxidation of toluene catalyzed by cobalt acetate and benzyl bromide was investigated. DMAP showed improvement for the activity. The promoting effect was discussed.

Keywords: selective oxidation, molecular oxygen, toluene, 4-*N,N*-dimethylamino pyridine, benzyl bromide

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