

C~6~0与偶氮二异丁腈基自由基反应的ESR研究

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收稿日期 修回日期 网络版发布日期 接受日期

摘要 C~6~0与偶氮二异丁基腈热分解产生的游离基(CH~3)~2CCN发生加成反应,产物的红外光谱出现C~6~0和CN, CH的特征振动峰, ESR谱出现一对弱的肩峰,中间的主峰容易功率饱和,表明有两类物种存在,提出了可能的反应机理。

关键词 [自由基反应](#) [偶氮二异丁腈](#) [C60](#) [ESR](#) [其它基金](#)

分类号 [0611.662](#)

ESR study on the reaction of C~6~0 with radical (CH~3)~2CCN

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Abstract The radical adductive reaction of C~6~0 and (CH~3)~2CCN generated from thermolysis of [(CH~3)~2C(CN)N=]~2 was reported. IR of the reaction products shown that there had bands of 1429, 527cm⁻¹ (C~6~0); 2233cm⁻¹ (CN) and 2964, 1369cm⁻¹ (C-H). ESR spectra were composed of a sharp peak with a pair of weak shoulder at g=2.0032. The main peak appeared power saturation as microwave power increasing, which indicates that there have two kinds of species in the reaction products. The possible reaction mechanism was proposed.

Key words [FREE RADICAL REACTION](#) [AZOBISISOBUTYRONITRILE \(AIBN\)](#) [ESR](#)

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