

研究简报

全偶氮苯官能化树枝状聚合物的合成

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摘要 以4-羧基-4'-(1, 2-丙二醇醚)-偶氮苯为 AB_2 单体, 由4-羧基-4'-正丁基醚-偶氮苯出发, 采用收敛法合成了以偶氮苯为结构单元的新型树枝状聚合物, NMR, GPC和 MALDI-TOF-MS的测试结果表明, 合成的树枝状分子具有规整的分子结构和单分散的分子量分布.

关键词 [树枝状聚合物](#) [偶氮苯](#) [合成](#)

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Synthesis of Dendrimers Skeleton-Constructed with Azobenzene Moiety

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Abstract A series of novel dendrons and dendrimers skeleton-constructed with azobenzene moiety were synthesized with 4-carboxy-4'-(1,2-propanediolether)-azobenzene as an AB_2 monomer and 4-carboxy-4'-(*n*-butylether)-azobenzene as a peripheral monomer *via* a convergent approach and proceeding in a repeated stepwise growth manner. The NMR, GPC, and MALDI-TOF-MS measurements show that the obtained products possess regular molecular architecture and thus monodispersed molecular weights. It will be of interest to investigate the self assemble behavior of the polymers and the promising applications for the dendrimers as the dendritic boxes in the subsequent works.

Key words [Dendrimer](#) [Azobenzene](#) [Synthesis](#)

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