Title: Synthesis and characterization of termini azobenzenedendrimer

Authors: Omid Louie - Department of Chemistry, Payame Noor University, P.O. BOX 19395-4697, Tehran, Iran
Abdoulhossien Massoudi - Department of Chemistry, Payame Noor University, P.O. BOX 19395-4697, Tehran, Iran
Azar Agah - Department of Chemistry, Payame Noor University, P.O. BOX 19395-4697, Tehran, Iran

Abstract:

Some of the organic molecules can be isomerized upon photoirradiation and when they are accompanied by a change in the visible absorption spectrum, it can be called photochromism. Azobenzenes which are important parts of molecular machines and nanotechnology can be called photoisomerizationazobenzenene (azo) chromophores, and have been incorporated into a wide variety of materials and molecular architectures, including polymers, dendrimers, and molecular glasses. We synthesized and characterized the AB$_2$ type polyamidoamine (PAMAM) dendrimers by single active site. PAMAM diazobenzenedendrimer was synthesized and characterized by FTIR and NMR ($^{1}$H, $^{13}$C) and CHN-O Elementary analysis. A simple method can be used for the synthesis of azobenzene derivative PAMAM dendrimer and other similar compounds.

Keywords: Azodibenzoic acid, PAMAM dendrimer, termini group

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