Photoreactions between [60]Fullerene and Various Aromatic Tertiary Amines

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1) General experimental methods

A mixture of *N,N*-dimethylaniline **1a** (970 mg, 8.0 mmol) and [60]fullerene (288 mg, 0.4 mmol) in toluene (500 ml) was irradiated with a 400-W high-pressure mercury lamp in a Pyrex vessel at room temperature for 6 h. The reaction mixture was chromatographed on silica gel (toluene/hexane 1:9) and GPC (solvent; CHCl₃), to give unreacted [60]fullerene, monoadduct **2a–4a**, and regioisomeric mixture of bisadducts.

2) ^1H NMR spectrum of **2a** in CDCl_3 .

3) ^1H NMR spectrum of **3a** in CDCl_3 .

4) ^1H NMR spectrum of **4a** in CDCl_3 .

5) ^1H NMR spectrum of **3b** in CDCl_3 .

6) ^1H NMR spectrum of **4b** in CDCl_3 .

7) ^1H NMR spectrum of **2d** in CDCl_3 .

8) ^1H NMR spectrum of **3d** in CDCl_3 .

9) UV-Vis spectrum of **2a** in cyclohexane

10) UV-Vis spectrum of **3a** in cyclohexane

11) UV-Vis spectrum of **4a** in cyclohexane

12) UV-Vis spectrum of **3b** in benzene

13) UV-Vis spectrum of **4b** in benzene

14) UV-Vis spectrum of **2d** in cyclohexane

15) UV-Vis spectrum of **3d** in cyclohexane