

Photosensitive vesicles from a *cis*-azobenzene gemini surfactant show high photoresponse

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Supplementary Information

Fig. S1 UV of **1** (A) and **2** (B) in dichloromethane solution upon irradiation at 365 nm.

Fig. S2 Mass spectral analysis (MS-TOF) of samples of *E*-**2** prior and after irradiation.

Fig. S3 ^1H and ^{13}C NMR of **4**.

Fig. S4 ^1H NMR of **5**.

Fig. S5 ^1H NMR of **6**.

Fig. S6 ^1H NMR of *E*-**1**.

Fig. S7 ^1H NMR of **8**.

Fig. S8 ^1H NMR of **9**.

Fig. S9 ^1H NMR of **10**.

Fig. S10 ^1H NMR of *E*-**2**.

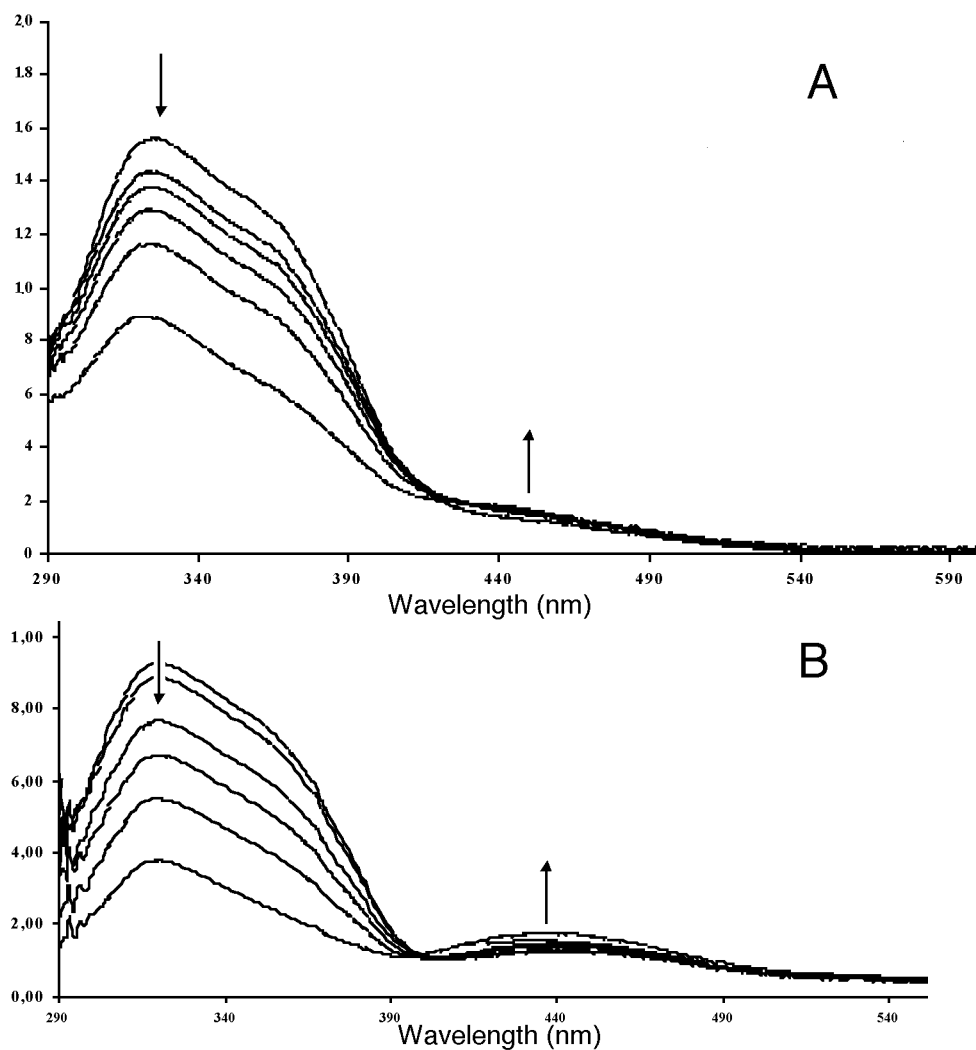


Fig. S1 UV spectral changes upon photoinduced *E,Z* isomerization of **1** (A) and **2** (B) in dichloromethane solution upon irradiation at 365 nm.

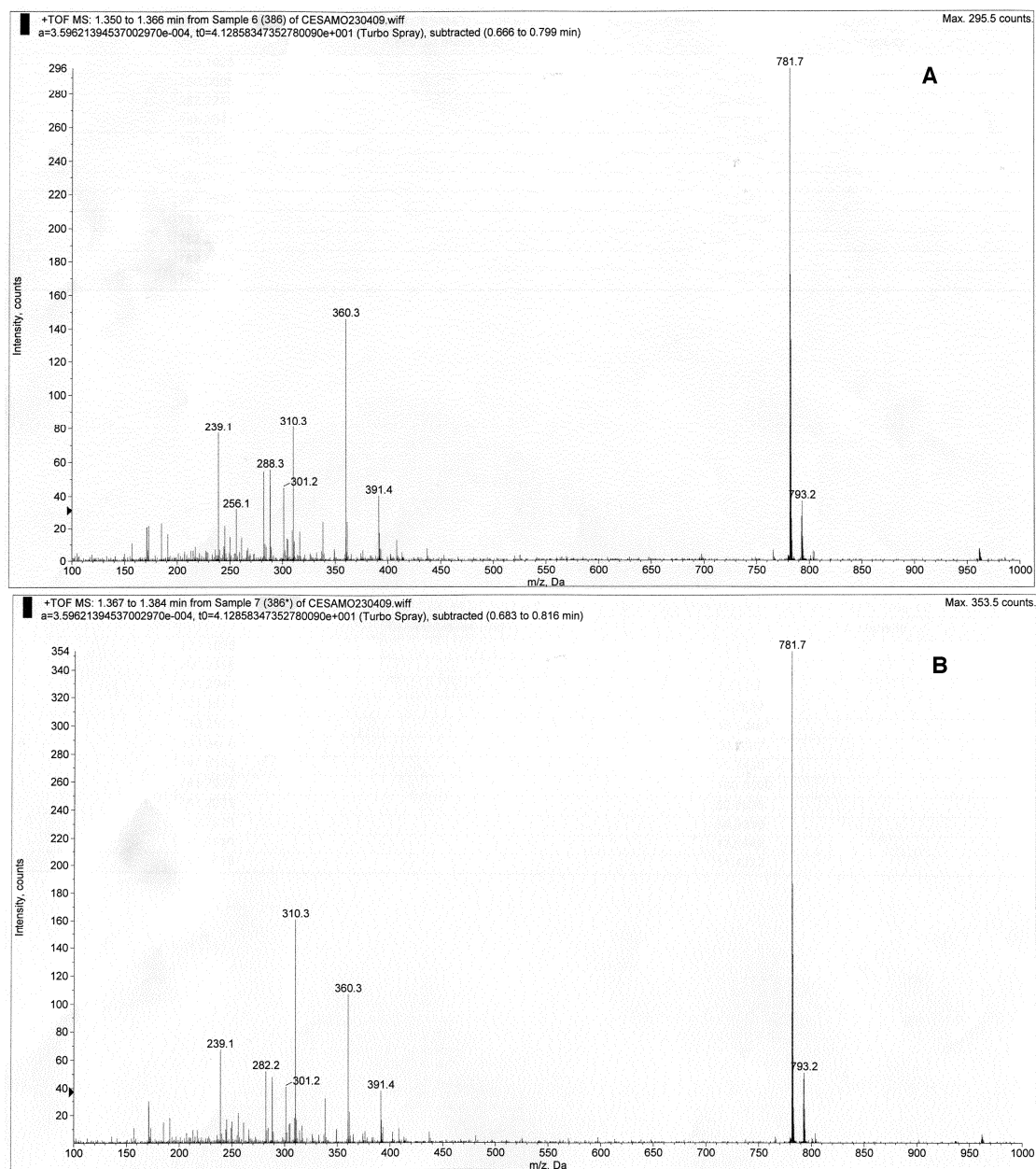


Fig. S2 Mass spectral analysis (MS-TOF) of samples of *E-2* prior to irradiation (A) and following irradiation in dichloromethane at 365 nm to generate the PSS(365) mixture, solubilization in water, and irradiation at 254 nm (B).

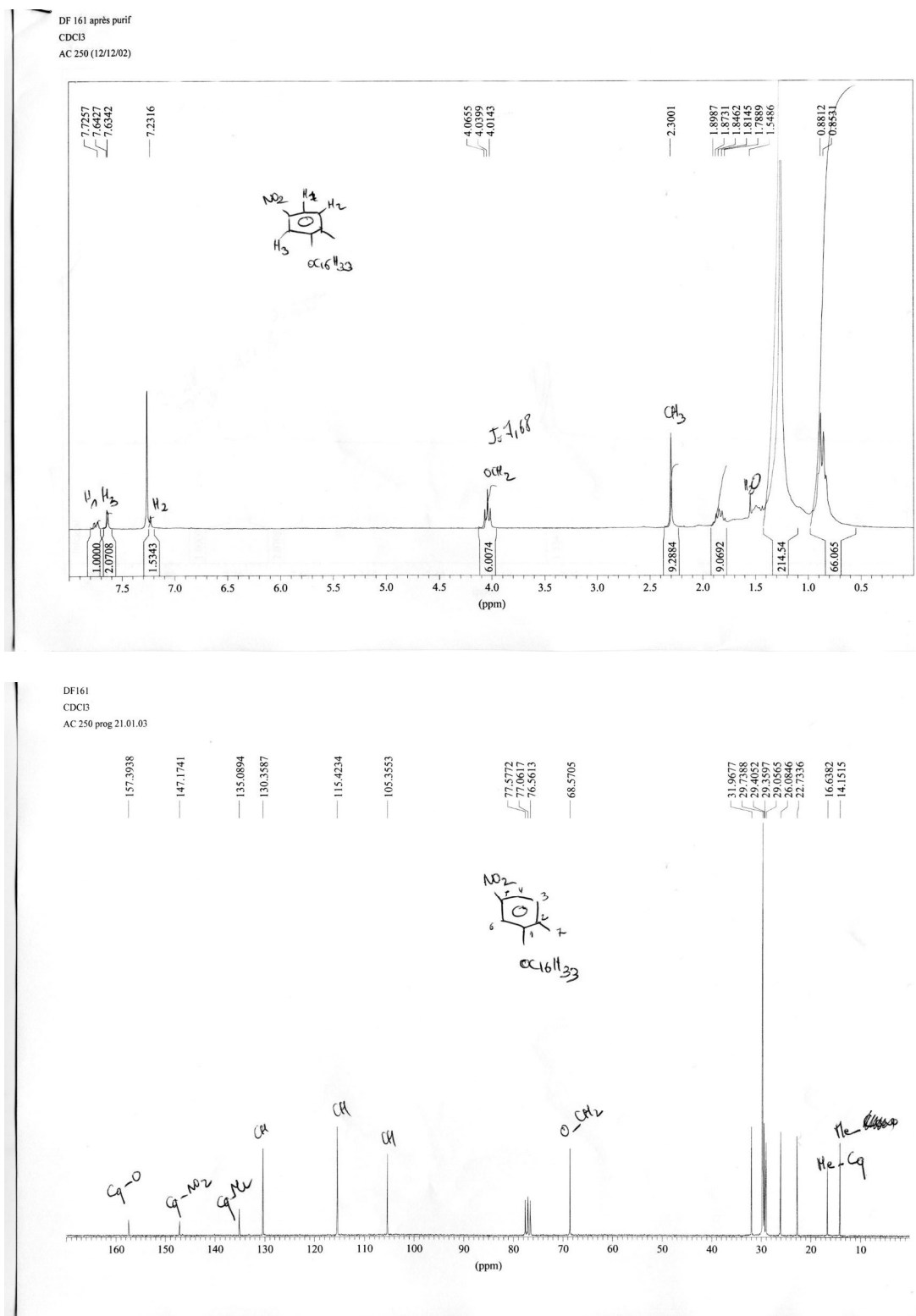


Fig. S3 ¹H (top) and ¹³C (bottom) NMR of 4.

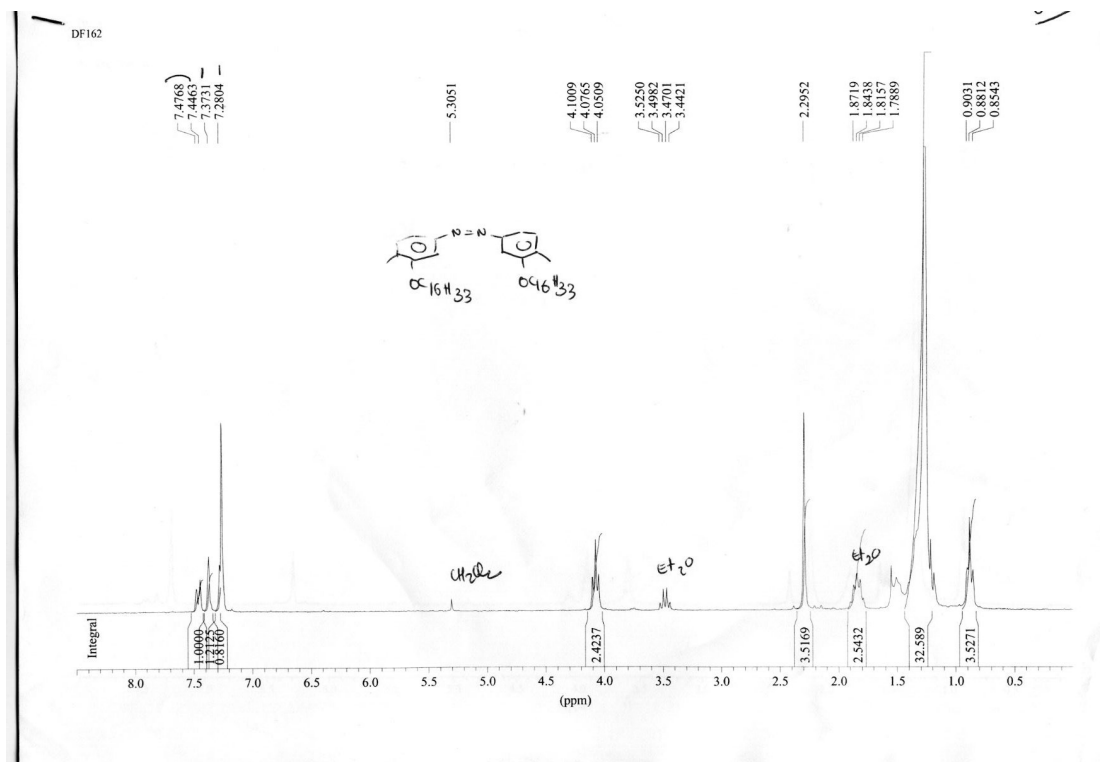


Fig. S4 ^1H NMR of 5.

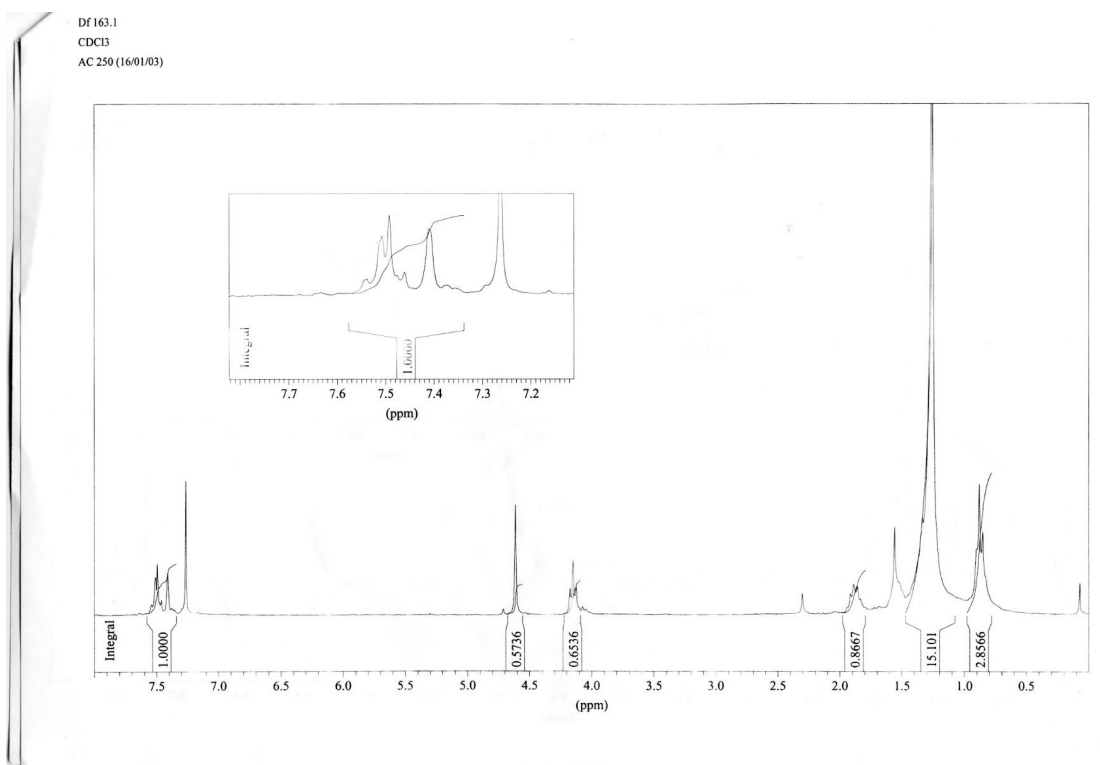


Fig. S5 ^1H NMR of 6.

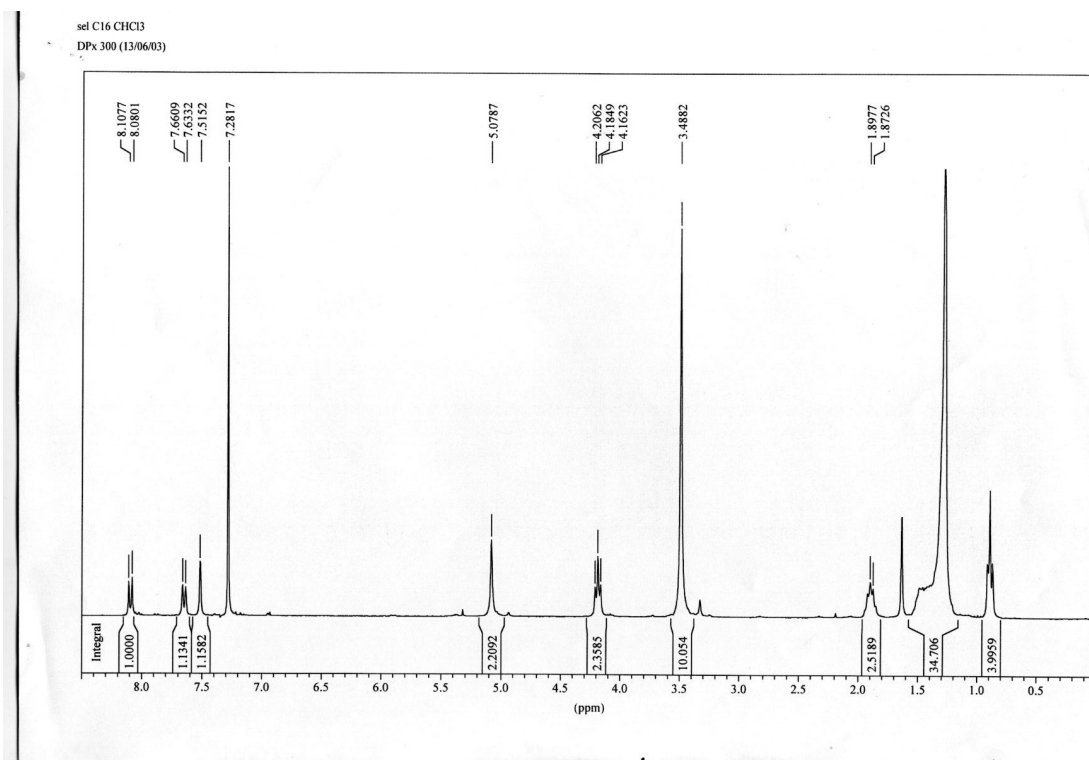


Fig. S6 ¹H NMR of *E*-1.

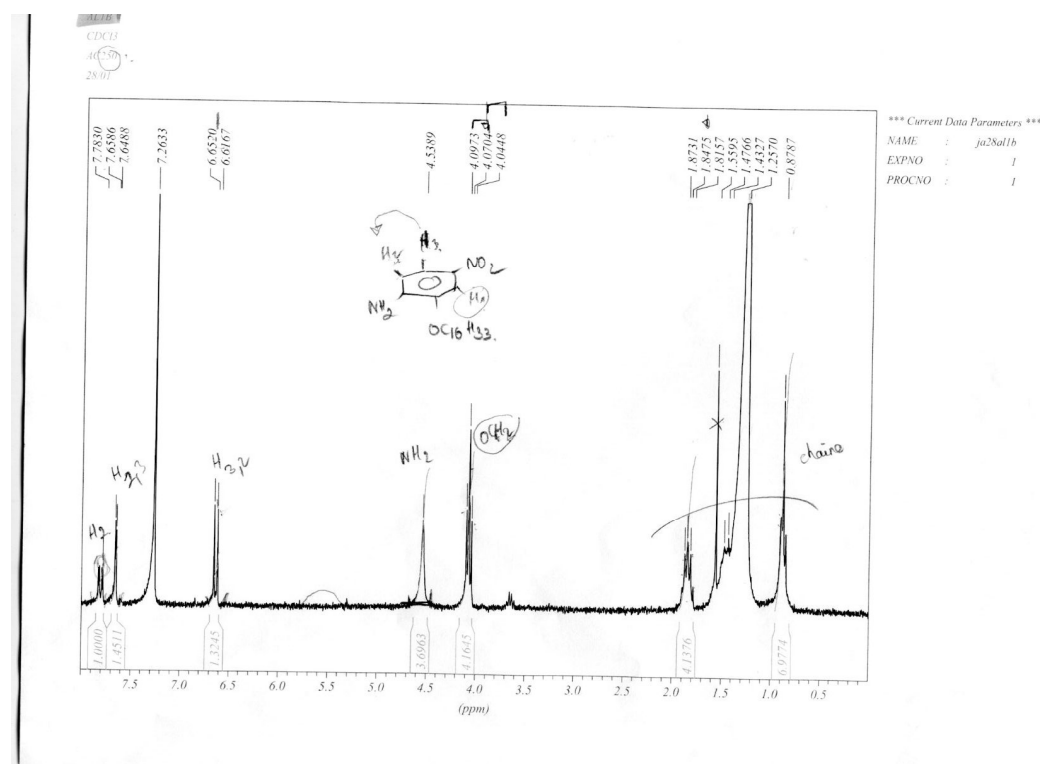


Fig. S7 ¹H NMR of **8**.

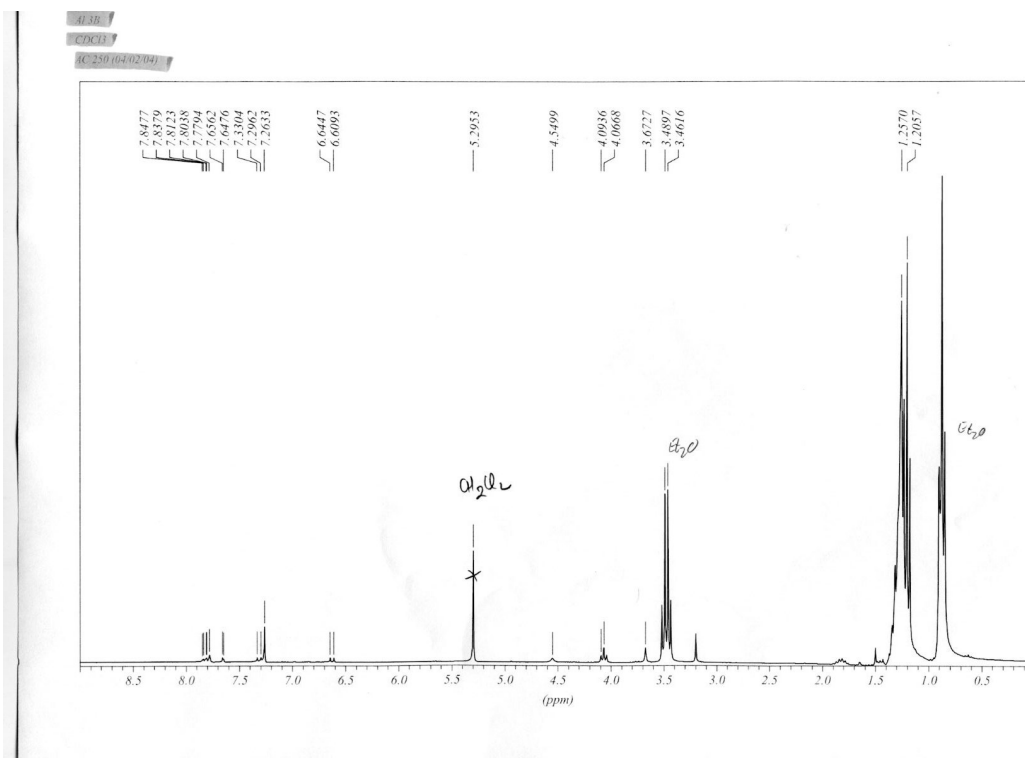


Fig. S8 ¹H NMR of 9.

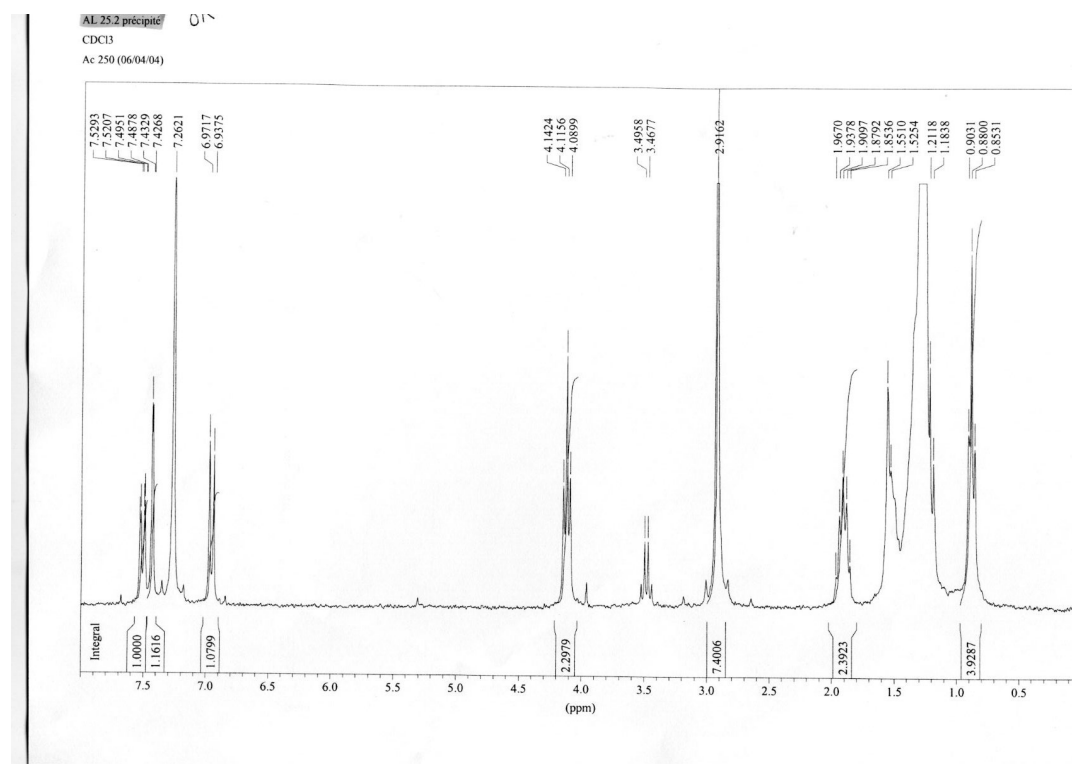


Fig. S9 ¹H NMR of 10.

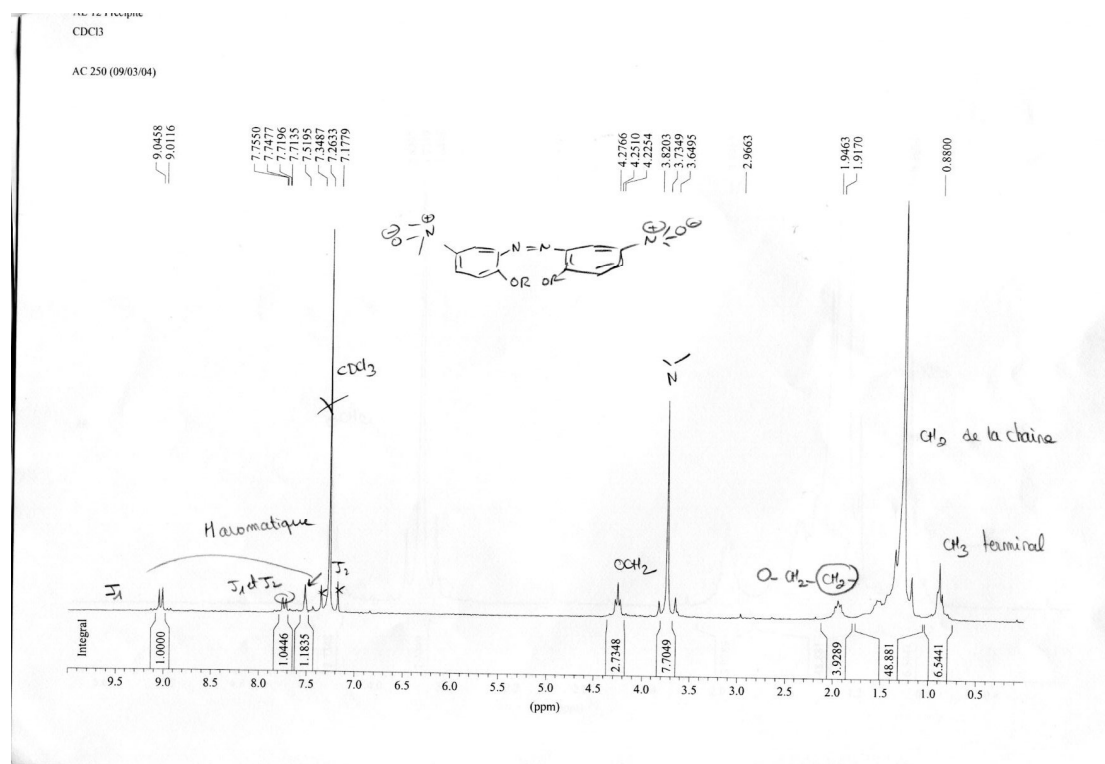


Fig. S10 ¹H NMR of *E*-2.