Supporting information

Bio-inspired colouration on various textile materials using a novel catechol colorant

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Fig. S1 1H NMR spectrum of D1 in DMSO-d6. Inset, partial 1H NMR spectrum of D1 in CDCl3. In order to check the peaks of OH groups, DMSO-d6 was used as solvent for NMR. But, one peak for CH2 group at δ 2.48 ppm was almost covered by the solvent residual peak at δ 2.52 ppm. So, CDCl3 was used for 1H NMR again. Its spectrum clearly showed the three peaks for two CH2 groups and a CH3 group with the correct ratio of integral area. According to the results of these two 1H NMR spectra, it showed the correct chemical structure of D1.

Fig. S2 13C NMR spectrum of D1 in DMSO-d6.
Fig. S3 HRMS spectra of D1

Fig. S4 $^1$H NMR spectrum of D2 in CDCl$_3$.

Fig. S5 $^{13}$C NMR spectrum of D2 in CDCl$_3$.

Fig. S6 HRMS spectra of D2