

Correction to Bright, Color-Tunable Fluorescent Dyes Based on π -Expanded Diketopyrrolopyrroles

Marek Grzybowski, Eliza Glodkowska-Mrowka, Tomasz Stoklosa, and Daniel T. Gryko*

Org. Lett. 2012, 14 (11), 2670–2673. DOI: 10.1021/ol300674v

S Supporting Information

Wrong calibration of fluorescence spectrometer at the time of original emission measurements led to wrong values of fluorescence quantum yields for diketopyrrolopyrroles described. We present here the correct values obtained during scrupulous measurements performed with a freshly calibrated apparatus. We also present slightly corrected absorption and emission spectra of π -expanded diketopyrrolopyrroles.

Page 2673, Table 2 should read:

Table 2. Spectroscopic Data of Diacetals 2a–f and Products of Their Electrophilic Cyclizations 3a–f

compd	solvent	$\lambda_{\text{abs}}^{\text{max}}$ (nm)	$\lambda_{\text{em}}^{\text{max}}$ (nm)	Stokes shift (cm ⁻¹)	ϵ_{max} (M ⁻¹ cm ⁻¹)	Φ_{fl}
2a	CHCl ₃	495	538	1610	23000	0.90 ^a
2b	CHCl ₃	496	541	1680	31000	0.90 ^a
2c	CHCl ₃	533	557	810	24000	0.70 ^b
2d	CHCl ₃	493	524	1200	24000	0.90 ^a
2e	CHCl ₃	580	594	410	75000	0.75 ^{b,c}
2f	CHCl ₃	595	613	490	83000	0.75 ^{b,c}
3a	CHCl ₃	593	597	110	110000	0.85 ^c
	DMF	593	602	250	91000	0.70 ^c
3b	CHCl ₃	590	597	200	97000	0.80 ^c
	DMF	592	602	280	135000	0.70 ^c
3c	CHCl ₃	605	609	110	64000	0.75 ^c
	DMF	605	618	350	62000	0.62 ^c
3d	CHCl ₃	575	578	90	71000	0.80 ^c
	DMF	575	586	330	68000	0.73 ^c
3e	CHCl ₃	643	651	190	110000	0.99 ^d
	DMF	645	658	310	107000	0.60 ^c
3f	CHCl ₃	648	653	120	89000	0.70 ^d
	DMF	648	660	280	58000	0.50 ^c

^a Φ_{fl} reference: fluorescein in 0.1 M NaOH ($\Phi_{\text{fl}} = 0.9$). ^b Φ_{fl} reference: rhodamine 6G in EtOH ($\Phi_{\text{fl}} = 0.94$). ^c Φ_{fl} reference: Cresyl Violet in MeOH ($\Phi_{\text{fl}} = 0.54$). ^d Φ_{fl} reference: Nile Blue in EtOH ($\Phi_{\text{fl}} = 0.27$).

In the Supporting Information, page 2, Figure S-1 has been corrected as shown.

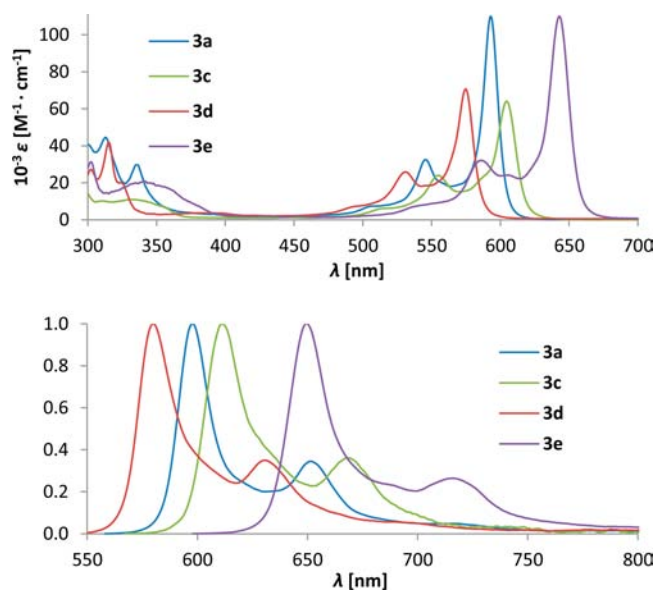


Figure S-1. Absorption and normalized fluorescence emission spectra of π -expanded DPPs measured in CHCl₃.

■ ASSOCIATED CONTENT

S Supporting Information

Corrected version of the Supporting Information. This material is available free of charge via the Internet at <http://pubs.acs.org>.