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CORRECTION

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# Correction: Azothiophene-based molecular switches: influence of substituent position and solvent environment on photophysical behavior

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Correction for 'Azothiophene-based molecular switches: influence of substituent position and solvent environment on photophysical behavior' by Xin Zhang *et al.*, *Phys. Chem. Chem. Phys.*, 2026, https://doi.org/10.1039/d5cp03027g.



The authors regret that in the originating article there were mistakes in the naming of compounds **2a–5a**. The correct naming and affected spectral assignments are given below.

**2a:** (*E*)-3-((3′-Carboxy-4′-hydroxyphenyl)diazenyl)thiophene-2-carboxylic acid
HRMS: (−ve ion nanospray): found: 312.9988 (10%), calc. for $[M - 2H + Na]^-$: 312.9901; 291.0081 (100%), calc. for $[M - H]^-$: 291.0081; 247.0184 (43%), calc. for $[M - CO_2H]^-$: 247.0183.

**3a:** (*E*)-3-((3′-Carboxy-4′-hydroxynaphth-1′-yl)diazenyl)thiophene-2-carboxylic acid
$\delta_H$ (400 MHz, DMSO-$d_6$): 8.86 (1H, d, $J$ = 8.4, 8′-*H*), 8.47 (1H, s, 2′-*H*), 8.34 (1H, d, $J$ = 8.0, 5′-*H*), 7.88 (1H, d, $J$ = 5.0, 5-*H*), 7.66 (1H, t, $J$ = 7.6, 7′-*H*), 7.62 (1H, d, $J$ = 5.0, 4-*H*), 7.49 (1H, t, $J$ = 7.2 Hz, 6′-*H*).

**4a:** (*E*)-3-((2′-Hydroxynaphth-1′-yl)diazenyl)thiophene-2-carboxylic acid
$\delta_C$ (100.6 MHz, DMSO-$d_6$): 178.3 (2′-*C*), 163.2 (2-*C*$O_2$H), 147.9 (3-*C*), 142.6 (4′-*C*), 133.3 (5-*C*), 132.8 (8a′-*C*), 130.2 (1′-*C*), 129.6 (7′-*C*), 129.2 (5′-*C*), 128.3 (4a′-*C*), 127.1 (6′-*C*), 126.4 (3′-*C*), 122.1 (8′-*C*), 119.3 (4-*C*), 113.6 (2-*C*) (Thus, in DMSO-$d_6$, **4a** is present mainly as the hydrazo tautomer.)

**5a:** (*E*)-3-((3′-Carboxy-2′-hydroxynaphth-1′-yl)diazenyl)thiophene-2-carboxylic acid
HRMS (−ve ion nanospray): found: 341.0239, calc. for $[M - H]^-$: 341.0238.

The Royal Society of Chemistry apologises for these errors and any consequent inconvenience to authors and readers.

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