

Rapid naked-eye colorimetric detection of gaseous alkaline analytes using rhodamine B hydrazone-coated silica strips

Hany F. Nour* and Tamer El Malah*

Photochemistry Department, Chemical Industries Research Division, National Research Centre, 33 El Buhouth Street, P.O. Box 12622, Cairo, Egypt

*Corresponding authors: hany.nour@daad-alumni.de (Hany F. Nour) and tmara_nrc3000@yahoo.com (Tamer El Malah)

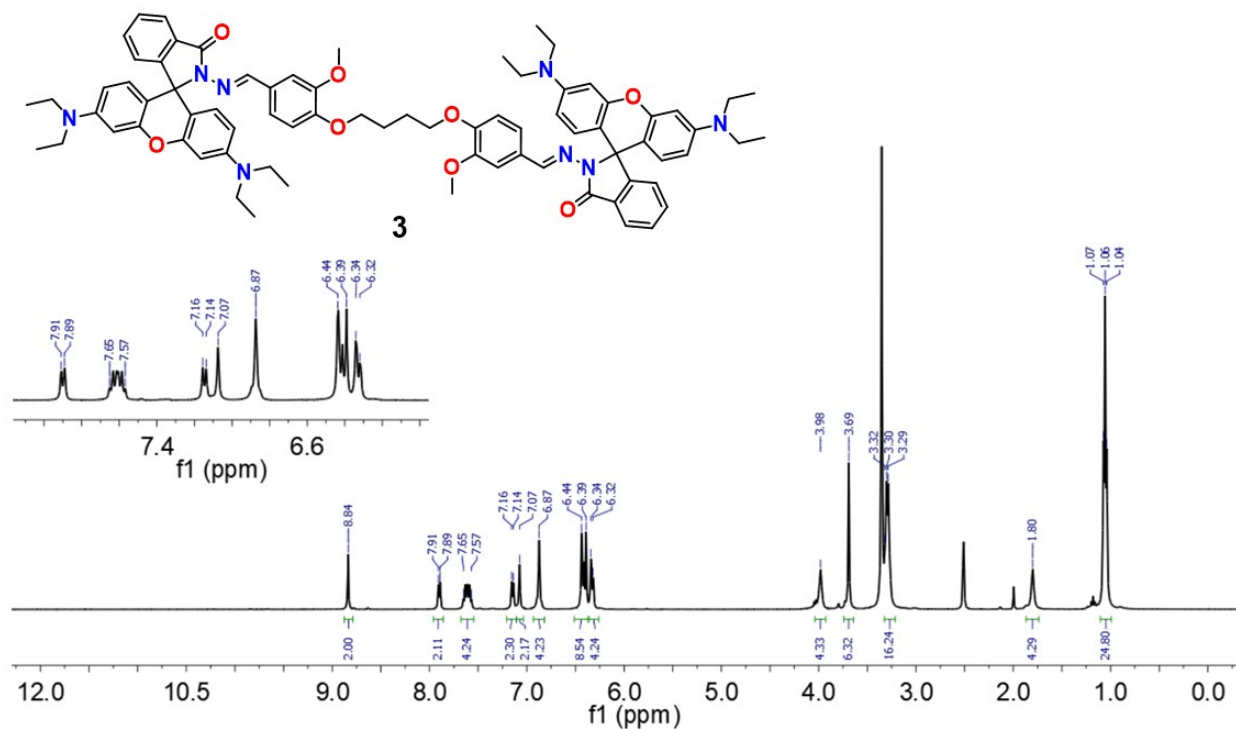


Figure 1. ^1H NMR spectrum of *bis*-rhodamine B hydrazone **3** (DMSO- d_6 , 400 MHz, 298 K).

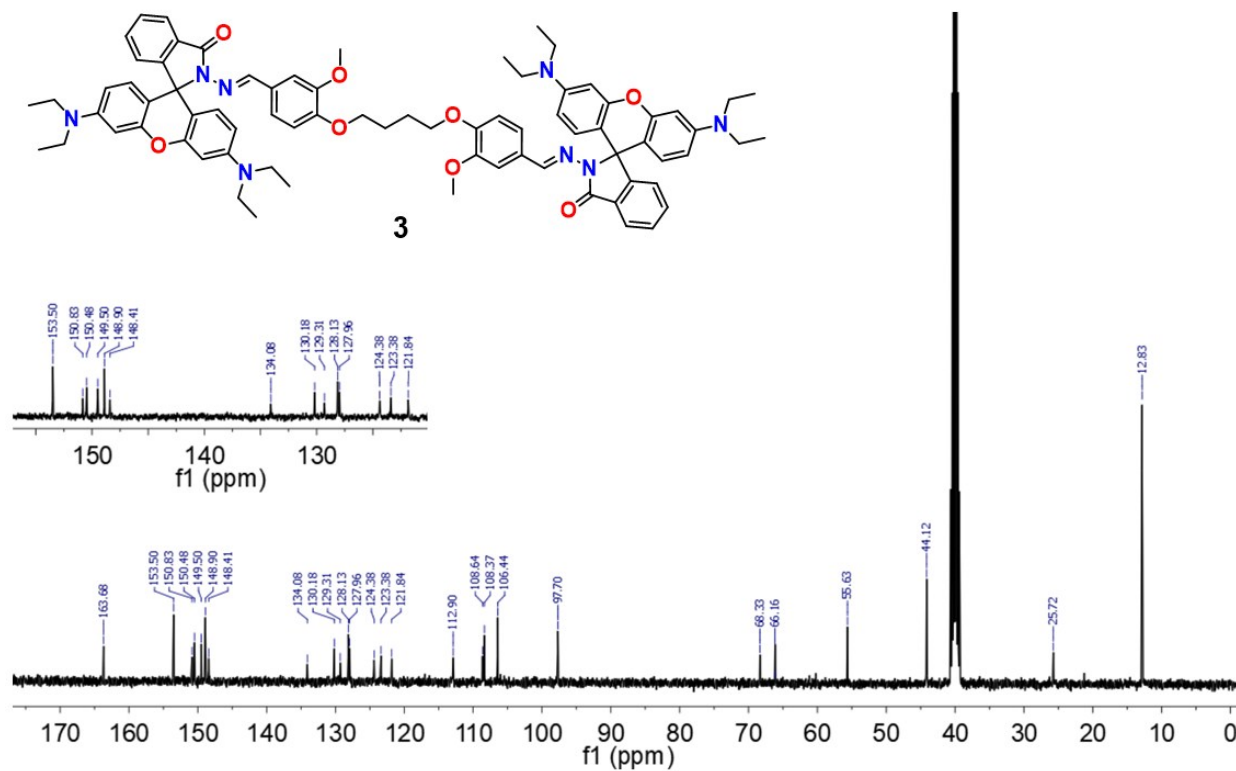
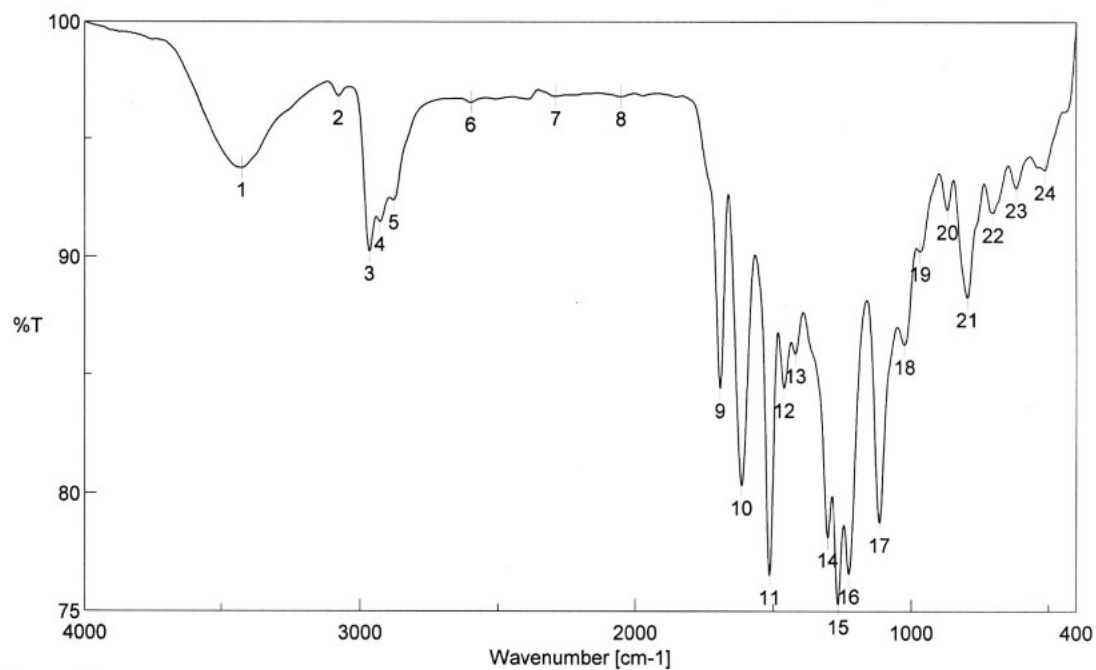


Figure 2. ^{13}C NMR spectrum of *bis*-rhodamine B hydrazone **3** (DMSO- d_6 , 100 MHz, 298 K).



[Comments]

Sample name N4
 Comment 7/2019
 User IR
 Division IR
 Company MAC

[Result of Peak Picking]

No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	3427.85	93.7608	2	3077.83	96.8358	3	2966.95	90.2274
4	2928.38	91.4774	5	2879.2	92.3865	6	2598.61	96.5477
7	2288.13	96.8174	8	2051.89	96.7901	9	1693.19	84.4153
10	1615.09	80.3126	11	1513.85	76.5253	12	1461.78	84.4204
13	1421.28	85.8797	14	1303.64	78.1061	15	1266.04	75.2969
16	1227.47	76.5703	17	1116.58	78.7301	18	1025.94	86.2576
19	969.055	90.2302	20	867.81	91.9956	21	795.493	88.2754
22	700.998	91.8673	23	617.109	92.9188	24	512.008	93.6844



Figure 3. FT IR spectrum of compound rhodamine B hydrazone 3.