Supporting Information for:

A Novel Route to Fully Substituted 1*H*-Pyrazoles

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General Experimental

All reagents and solvents were purchased from Aldrich. 3,6-diphenyl-1,2,4,5-tetrazine (**1a**) and benzyl acetone were purchased from Aldrich. NMR spectra were obtained in CDCl₃ using a Varian Mercury spectrometer operating at 400MHz and 100MHz. Deuteriochloroform Spectra referenced to CDCl₃ δ_H at 7.26 ppm and CDCl₃ at δ_C at 77.26 ppm. Flash chromatography was done using EM silica gel (230-400 mesh). Thin layer chromatography was carried out on Merck silica gel 60 F254 plates and visualized under a UV lamp. All infrared data were determined on a Genesis II Mattson FT IR. The LC/MS specifications are as follows: LC/MS (with a Waters 2695 and a Waters PDA 996), ionization mode; electrospray (+), mass range 200-900 Da, 19v cone voltage, column: Xterra MSC₁₈ (Waters, 2.1mm x 50mm x 3.5 μM).

¹H-NMR, ¹³C-NMR, and HPLC for **10**page SI-2 – SI-3

¹H-NMR, ¹³C-NMR, and HPLC for **11**page SI-4 – SI-5

¹H-NMR, ¹³C-NMR, and HPLC for **12**page SI-6 – SI-7

¹H-NMR, ¹³C-NMR, and HPLC for **13**page SI-8 – SI-9

¹H-NMR, ¹³C-NMR, and HPLC for **14**page SI-10 – SI-11

¹H-NMR, ¹³C-NMR, and HPLC for **15**page SI-12 – SI-13

Tabular summary of Characteristic

Spectroscopic Signals for 1*H*-pyrazoles **10-15**.....page SI-14

Compound 10

Compound 11

Compound 12:

Compound 13:

Compound 14:

Compound 15:

Archive directory: /export/home/kurth/vmware/data
 Sample directory:
 File: PROTON
 Pulse Sequence: s2pul

compound **10**. R = Me, Ar = Ph
 compound **11**. R = Et, Ar = Ph
 compound **12**. R = Me, Ar = *p*-BrC₆H₄
 compound **13**. R = CH₂CH₂OH, Ar = *p*-BrC₆H₄
 compound **14**. R = Me, Ar = 2-Pyridyl
 compound **15**. R = CH₂CH₂OH, Ar = 2-Pyridyl

Characteristic Spectroscopic Signals for 1*H*-pyrazoles **10-15**.*

Compound	IR (OH) cm ⁻¹	¹ H NMR ppm		¹³ C NMR ppm		
		Styryl	Benzylic	C3	C14	C21
10	3407	5.47, 5.12;	5.02	145.5	112.6	81.1
11	3417	5.46, 5.12;	5.12	145.5	112.6	79.3
12	3360	5.55, 5.20;	5.12	144.5	113.2	81.2
13	3379	5.51, 5.18;	5.23	144.5	113.3	79.4
14	3061	6.58, 5.60;	5.37	144.6	118.0	76.7
15	3360	5.55, 5.41;	6.44	144.8	118.0	76.0

* The numbering of the carbons of the substituents is arbitrary.