

Table 1: Physical characteristics and analytical characteristics of 2- phenylindole (3) and Diindolylmethane 4(a-j)

S.No.	Compd. No.	X	Y	Z	% Yield	M.P.	Molecular Formula	C (%)		H(%)		N(%)	
								Cal	Found	Cal	Found	Cal	Found
1.	3	H	-	H	87	188	C ₁₁ H ₁₁ N	87.04	87	5.67	5.54	7.21	7.24
2.	4a	F	H	H	82	122	C ₂₉ H ₂₀ N ₂ F ₂	80.93	80.88	4.65	4.61	6.51	6.23
3.	4b	Br	H	H	85	>300	C ₂₉ H ₂₀ N ₂ Br ₂	62.58	62.43	3.59	3.43	5.03	5.12
4.	4c	Br	Furfural	H	81	120	C ₃₃ H ₂₂ N ₂ Br ₂	63.66	63.61	3.53	3.42	4.50	4.48
5.	4d	CH ₃	H	H	87	160	C ₃₁ H ₂₆ N ₂	87.32	87.24	6.10	5.99	6.57	6.52
6.	4e	F	C ₆ H ₅	H	83	222	C ₃₅ H ₂₄ N ₂ F ₂	83.00	82.93	4.74	4.71	5.53	5.51
7.	4f	OCH ₃	C ₆ H ₅	H	81	184	C ₃₇ H ₃₀ N ₂ O ₂	83.14	83.10	5.61	5.55	5.24	5.12
8.	4g	H	C ₆ H ₅	H	78	258	C ₃₅ H ₂₆ N ₂	88.60	88.47	5.45	5.43	5.90	5.83
9.	4h	OCH ₃	Furfural	H	82	244	C ₃₅ H ₂₈ N ₂ O ₃	80.15	80.08	5.34	5.27	5.34	5.28
10.	4i	Cl	Me	Et	80	206	C ₃₂ H ₂₆ N ₂ Cl ₂	75.53	74.86	5.11	5.02	5.51	5.21
11.	4j	H	Me	Et	81	180	C ₃₂ H ₂₈ N ₂	87.27	87.12	6.36	6.13	6.36	6.14