

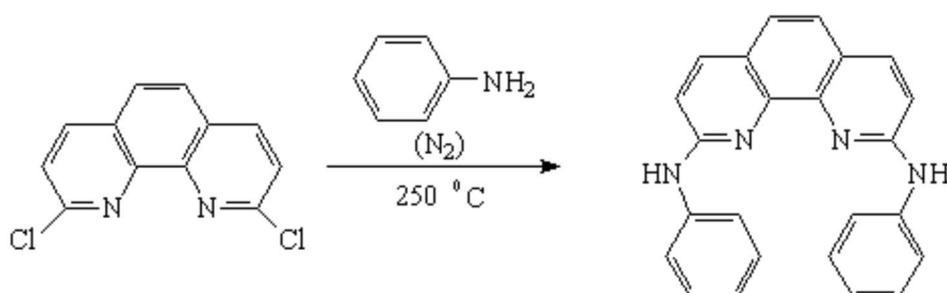
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## 2, 9-Diphenylamino-1,10-phenanthroline

Hai-Yang Liu, Chi-Fong Luo, Kuo-Shen Chuang and Wen-Jwu Wang\*

Department of Chemistry, Tamkang University, Taipei 25137, Taiwan. Tel. +886-02-26215656-2530,  
E-mail: [wjw@mail.tku.edu.tw](mailto:wjw@mail.tku.edu.tw)

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2,9-Dichloro-1,10-phenanthroline was prepared by a previously published method [1]. 2,9-Dichloro-1,10-phenanthroline (50 mg) was placed in a flask where the temperature was raised 150 °C with oil-bath, and aniline was introduced under N<sub>2</sub> gas. The temperature was raised to 250 °C and maintained for 5 hours. The mixture was purified by recrystallization from methanol, to give 2,9-diphenylamino-1,10-phenanthroline as a dark brown crystal (30 mg, yield: 30.0%).

<sup>1</sup>H-NMR (300MHz, *d*-TFA/CDCl<sub>3</sub>, V:V=1:1): 8.73 (2H, d, *J*=9.5), 8.24 (2H, s), 7.87 (6H, t), 7.69 (6H, t).

IR (KBr, cm<sup>-1</sup>): 410 (w), 500 (w), 589 (w), 613 (w), 689 (w), 730 (w), 762 (m), 846 (m), 1028 (w), 1076 (w), 1153 (w), 1209 (w), 1257 (w), 1284 (w), 1327 (w), 1362 (m), 1386 (w), 1397 (w), 1441 (m), 1453 (s), 1491 (m), 1510 (m), 1547 (s), 1577 (m), 1599 (m), 1642 (s), 1649 (s), 3279 (w), 3321 (m).

UV-Vis (l, nm, in CH<sub>3</sub>OH): 206.5, 225.5, 277.5, 347.5.

FAB-MS ([M+1]<sup>+</sup>): 363.

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### Reference

1. Ogawa, S.; Yamaguchi, T.; Gotoh, N. *J. Chem. Soc. Perkin Trans.* **1974**, 976-978.

*Sample Availability:* Available from the authors and from MDPI.

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