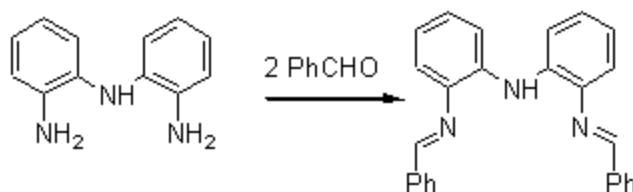


Bis[(2-benzylideneimino)phenyl]amine

Ke-Qing Zhao, Ping Hu, Quan Li and Hong-Bo Xu

Department of Chemistry, Sichuan Normal University, Chengdu, 610066, P. R. China.
Tel./Fax: +86-28-4764743. E-mail: kexiang@mail.sc.cninfo.net

Received: 13 May 2000 / Accepted: 10 June 2000 / Published: 10 July 2000



Imine and amine ligands have been widely used in the field of transition metal catalyzed olefin polymerization [1]. Here we report the synthesis of a tri-dendated imine-amine compound which we plan to use as a ligand. bis(2-Aminophenyl)amine (0.5g, 2.5mmol) [2] and benzaldehyde (0.53ml, 5.2mmol) are added into 10ml of CH_2Cl_2 and refluxed 4h under N_2 . The mixture is concentrated in vacuo, washed with cold hexane and dried in vacuo to give a red crystal product, 0.8g (yield 90%).

M. p. 195°C.

^1H NMR (400 MHz, CDCl_3): 8.23 (s, 1H, NH), 8.55 (s, 2H, N=CH), 6.8-8.0 (m, 18H, Ph).

^{13}C NMR (75 MHz, CDCl_3): Ar, 114.4, 119.8, 127.3, 128.6, 128.8, 131.1, 136.3, 137.7, 139.3; C=N, 157.9.

IR (KBr): 3350, 3051, 2873, 1622, 1582.

Anal. Calc. for $\text{C}_{26}\text{H}_{21}\text{N}_3$ (375.50): C 83.16, H 5.65, N 11.19; Found: C 83.04, H 5.67, N 11.29.

References

1. Britovsek, G. J. P.; Gibson, V. C.; Wass, D. F. *Angew. Chem. Int. Ed.* **1999**, *38*, 428-447.
2. Black, D. S.; Rothnie, C. N. E. *Aust. J. Chem.* **1983**, *36*, 1141-1147.

Sample availability: available from the authors and from MDPI.