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(6-Methoxy-2-naphthyl)-6-aminobenzodioxane

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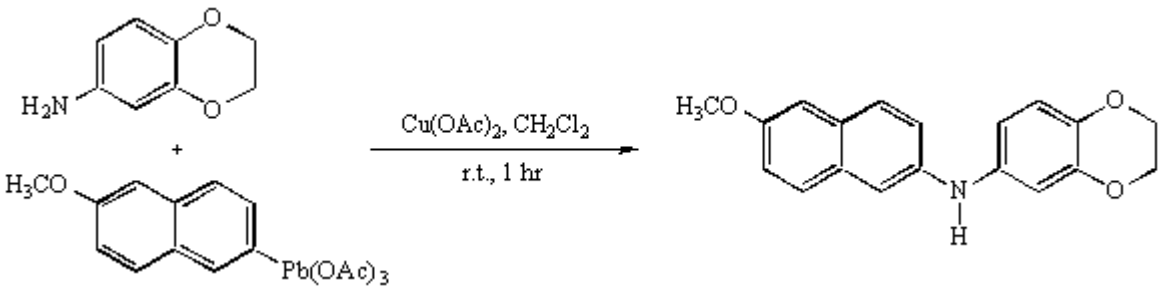

The general part of the experimental section [1] on organometallic substitution on arylamines has been described elsewhere. The N-aryl amine is a precursor of the phenothiazine drugs.

3,4-Ethylenedioxyaniline (0.5g, 3.3 mmol, 1 equ.), 6-methoxy-2-naphthyl lead triacetate [2], (1.95g, 3.6 mmol, 1.1 equ.), copper diacetate (54 mg, 0.3 mmol, 0.1 equ.), were stirred in anhydrous methylene chloride (30ml) under nitrogen during 1 hour at room temperature. The red solution was evaporated and the residue was chromatographed on silicagel with CH_2Cl_2 as the eluant. The titled N-arylamine was recovered as a white powder, 0.84g (83% yield).

M.p. 102 deg.C.

^{1}H-NMR (DMSO-d_6): 7.95 (s, NH), 7.65 (d, J = 8.8, 1H), 7.57 (d, J = 8.9, 1H), 7.28 (d, J = 2.1, 1H), 7.17 (dd, J = 8.7, 2.3, 1H), 7.03 (dd, J = 8.9, 2.6, 1H), 6.78 (d, J = 8.2, 1H), 6.65 (d, J = 2.5, 1H), 6.64 (dd, J = 8.2, 2.5, 1H), 4.22 (m, 4H), 3.82 (s, 3H).

^{13}C-NMR (DMSO-d_6): 155.14, 143.66, 140.53, 137.52, 137.52, 137.39, 129.75, 128.76, 127.70, 127.62, 120.11, 118.58, 117.58, 117.43, 111.57, 108.75, 106.68, 106.20, 64.35, 63.92, 55.10.

Anal calc. for $C_{19}H_{17}NO_3$ (307.30): C 74.25, H 5.57, N 4.56; found: C, 74.10, H 5.79, N 4.81.

References and Notes:

1. Boyer, G.; Galy, J. P.; Barbe J. *Heterocycles* **1995**, *41*, 487.

2. Kozyrod, R. P.; Morgan, J.; Pinhey, J. T. *Aust. J. Chem.* **1985**, *38*, 1147.

Sample Availability: Available from MDPI.

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