



Remaining all 13 H fall in aromatic region between 6.92 -7.50 ppm

NMR (400 MHz, CDCl_3) δ_{H} (ppm) 3.41 (s, 1H, **11b-H**), 3.62-3.66 (m, 2H, **3-Ha & 3-Hb**), 3.90 (dd, 1H, $J_{3\text{Ha},2\text{H}}=7.3$ Hz, $J_{3\text{Hb},2\text{H}}=2.6$ Hz, **2-H**), 4.10 (dd, 1H, $J_{3\text{Ha},4\text{H}}=7.3$ Hz, $J_{3\text{Hb},4\text{H}}=2.4$ Hz, **4-H**), 5.15 (d, 1H, $J_{7\text{H},4\text{H}}=6.8$, **7-H**), 6.92-7.50 (m, 13H, **6-H, 8-H, 11-H & Ar-H**), 8.04 (d, 2H, $J=6.2$, **Ar-H**). ^{13}C NMR (100 MHz, CDCl_3) δ_{C} (ppm) 38.1 (**3-C**), 63.7 (**4-C**), 71.9 (**2-C**), 84.3 (**11b-C**), 102.4 (**7-C**), 125.3 (**arom-C**), 126.2 (**8-C**), 126.9 (**9-C**), 127.1 (**10-C**), 127.9 (**11-C**), 128.1 (**arom-C**), 128.5 (**arom-C**), 128.9 (**arom-C**), 129.4 (**arom-C**), 132.4 (**arom-C**), 134.3 (**7a-C**), 134.8 (**11a-C**), 135.2 (**arom-C**), 137.8 (**6-C**), 139.2 (**arom-C**), 183.2 (**CO**). EIMS (m/z): 367(M^+). Anal. Calc for $\text{C}_{25}\text{H}_{21}\text{NO}_2$; C, 81.72; H, 5.76; N, 3.81. Found: C, 81.68; H, 6.79; N, 3.83.

