

Supplementary Material

Synthesis and characterization of a novel, long alkyl chain ester-substituted benzimidazole gelator and its 1-octanol solvate

H. Cristina Geiger, Patricia L. Zick, William R. Roberts and David K. Geiger*

Department of Chemistry, SUNY-College at Geneseo, Geneseo, NY 14454, USA

Correspondence e-mail: geiger@geneseo.edu

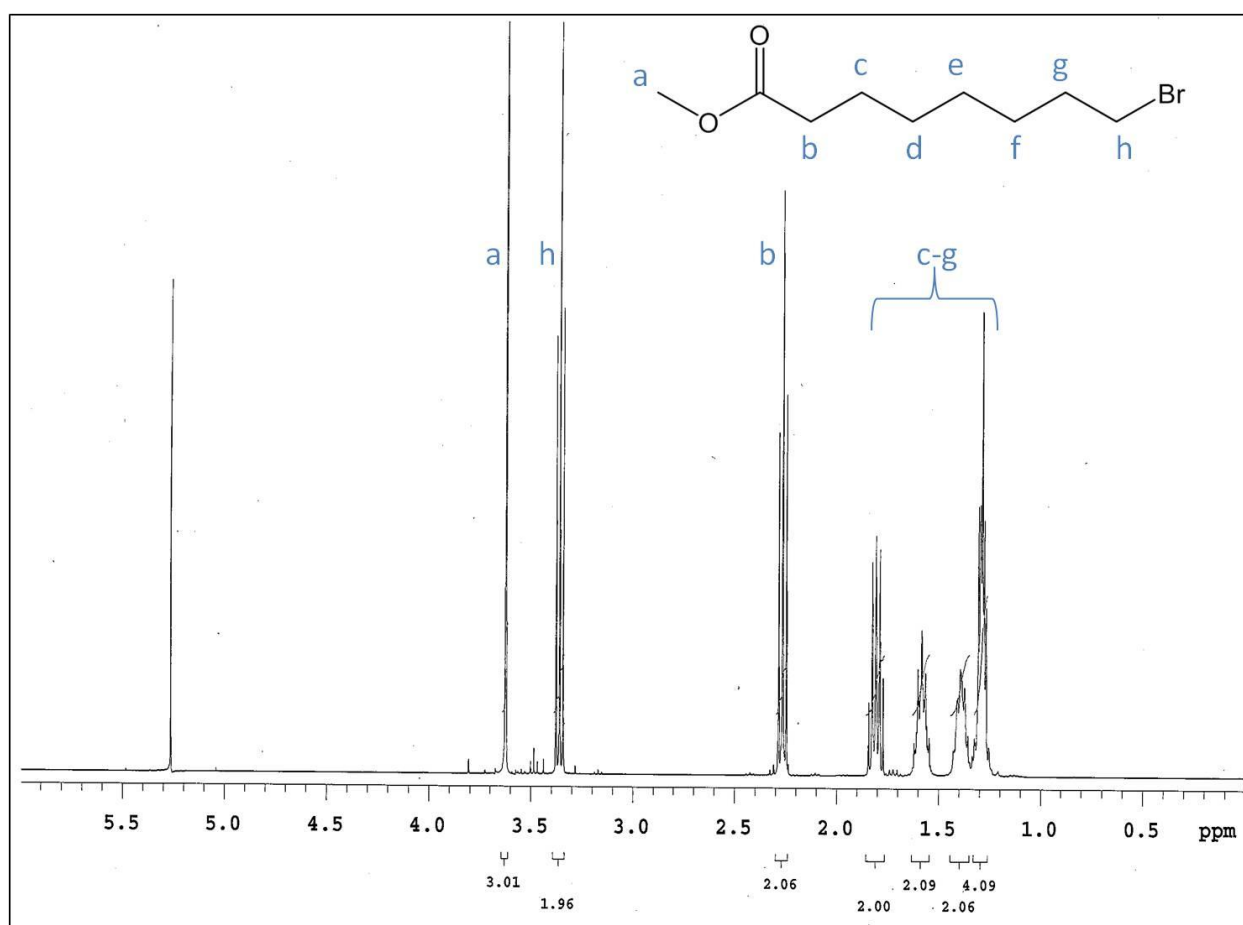


Figure 1S. ¹H NMR spectrum of (1). (400 MHz CDCl₃, ppm) δ3.62 (s, 3H), δ3.37 (t, 2H), δ2.28 (t, 2H), δ1.82 (m, 2H), δ1.59 (m, 2H), δ1.40 (m, 2H), δ1.30 (m, 4H).

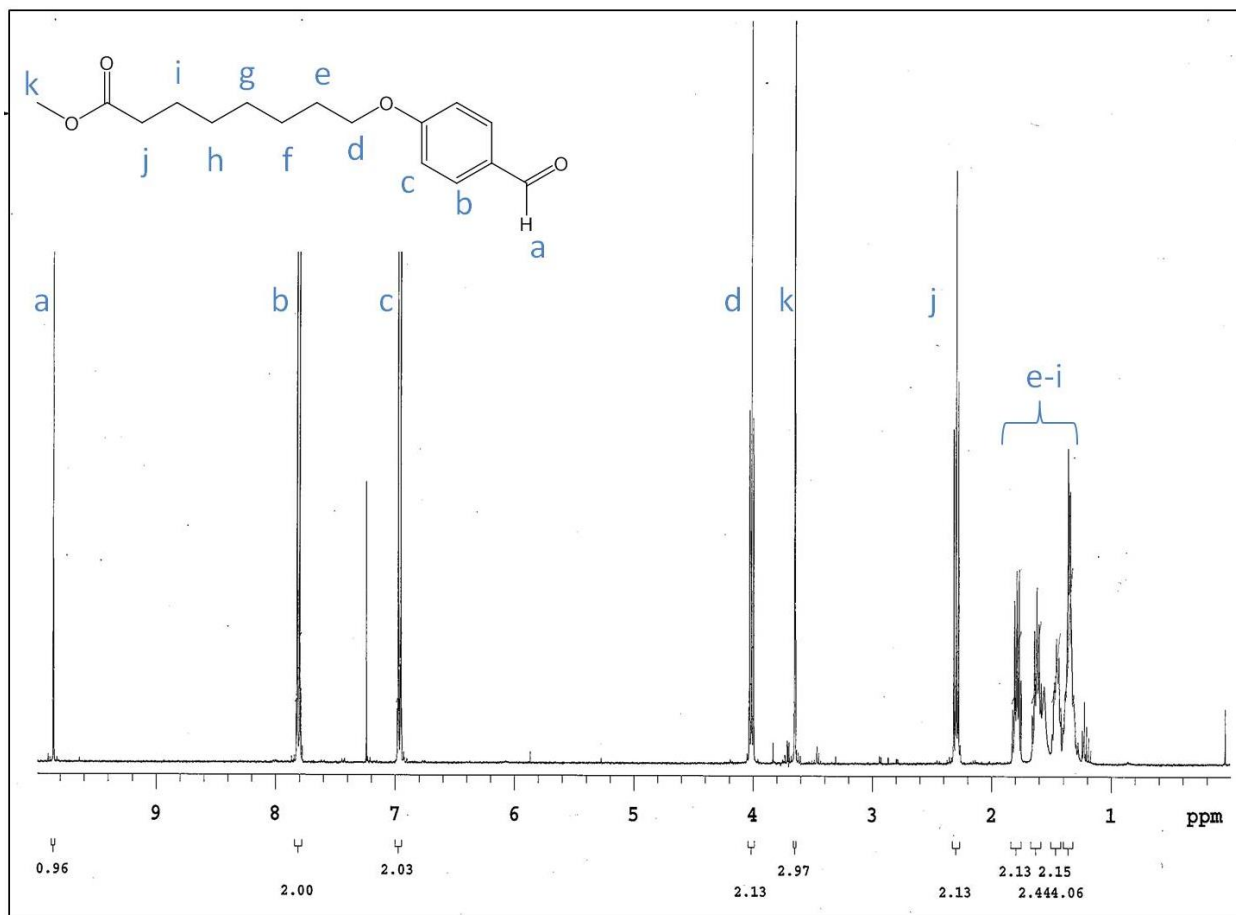


Figure 2S. ¹H NMR spectrum of (2). (400 MHz CDCl₃, ppm) δ9.83 (s, 1H), δ7.80 (d, 2H), δ6.98 (d, 2H), δ4.05 (m, 2H), δ3.65 (s, 3H), δ2.30 (m, 2H), δ1.79 (m, 2H), δ1.60 (m, 2H), δ1.47 (m, 2H), δ1.38 (m, 4H).

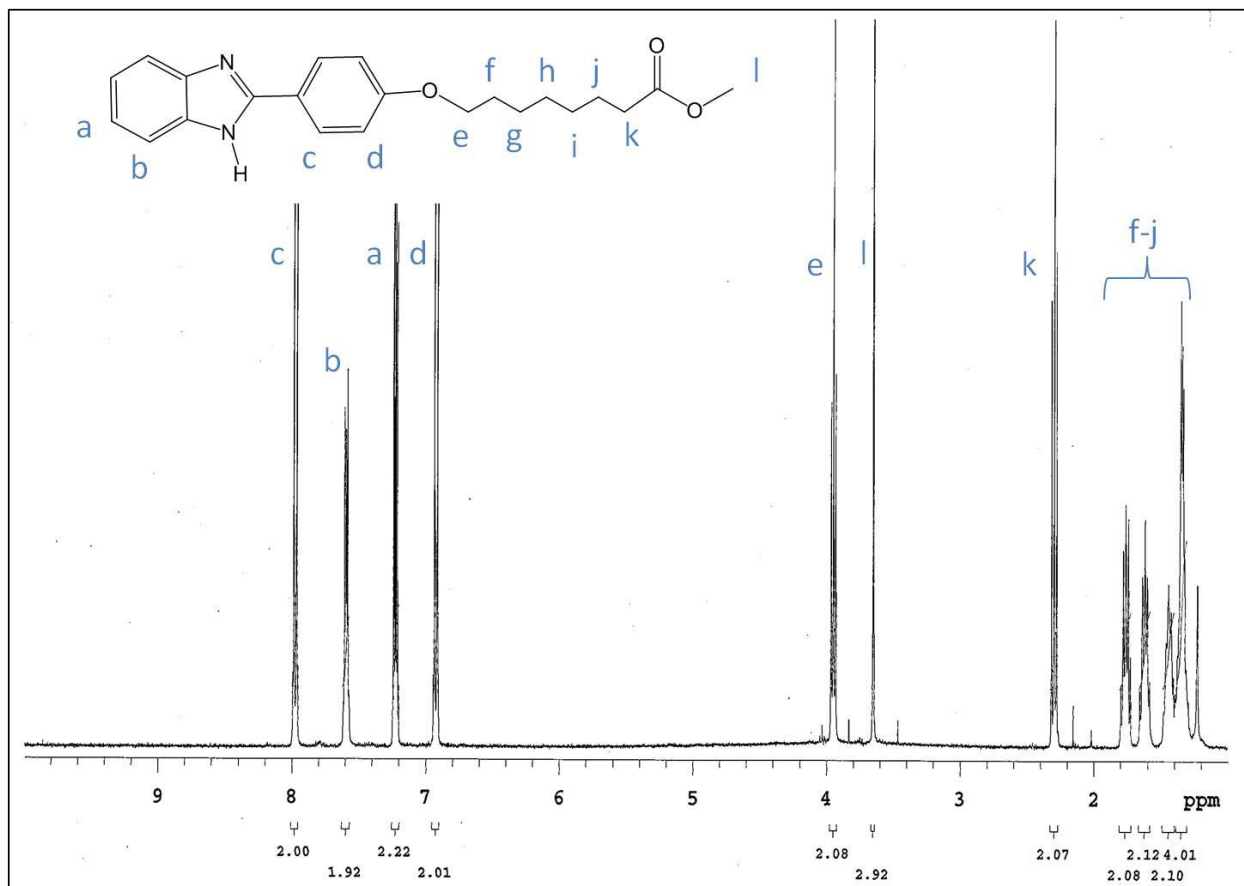


Figure 3S. ¹H NMR spectrum of (3). (400 MHz CDCl₃, ppm) δ7.96 (d, 2H), δ7.59 (m, 2H), δ7.23 (m, 2H), δ6.93 (d, 2H), δ3.95 (t, 2H), δ3.65 (s, 3H), δ2.29 (t, 2H), δ1.76 (m, 2H), δ1.63 (m, 2H), δ1.44 (m, 2H), δ1.35 (m, 2H).

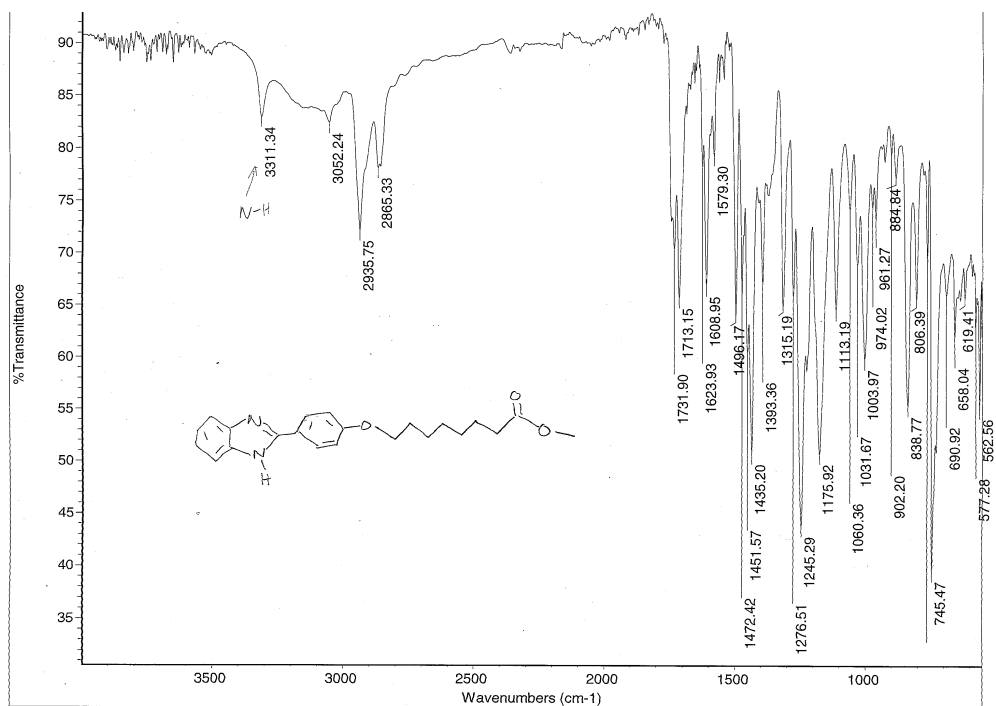


Figure 4S. IR spectrum of (3). Note the small sharp peak at 3311 cm^{-1} indicating N-H stretching (neat, cm^{-1}) 3311, 3052, 2935, 2865, 1731.