

MCM-41 and Na-Magadiite Silicates Internal Voids Probed by Pyrene Fluorescence Spectroscopy

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Supplementary Information

Using data from alcohols dielectric constants,¹ and band intensity ratios (I_3/I_1) from pyrene fluorescence spectra,² the graph in Fig. S1 was constructed to illustrate a linear relationship between environment polarity and I_3/I_1 ratio. Linear regression equation was employed to determine apparent dielectric constant experienced by pyrene within the silicates.

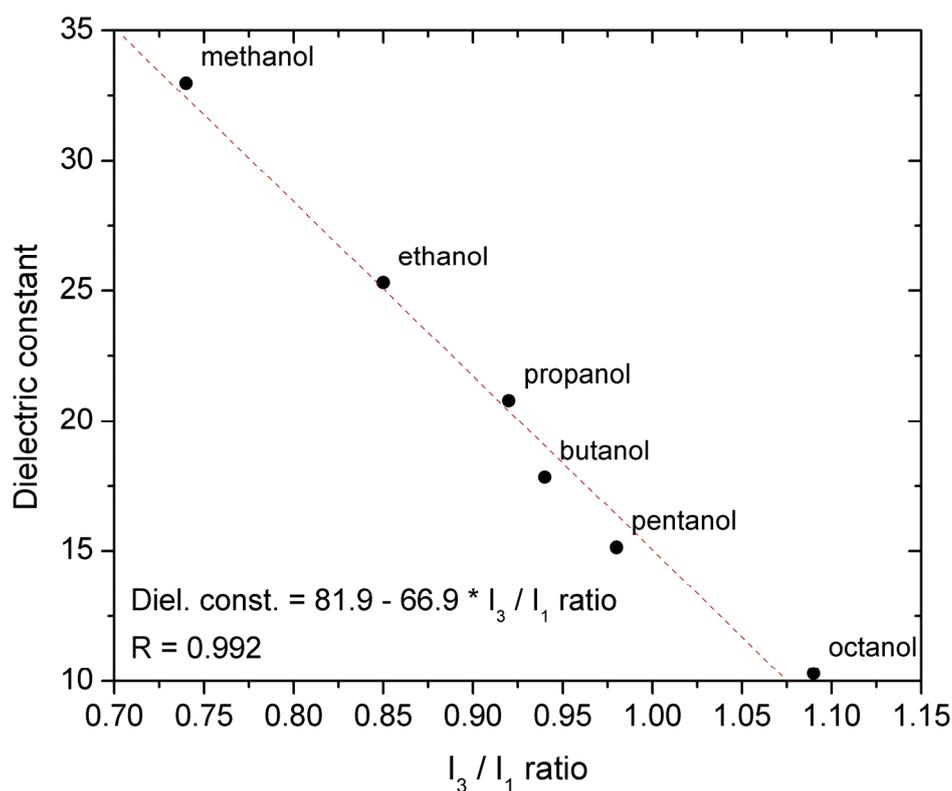


Fig. S1 – Linear fit of solvent dielectric constant vs. pyrene emission band intensity ratios I_3/I_1

¹ D. R. Lide, *CRC Handbook of Chemistry and Physics*, CRC Press, 2006.

² D. C. Dong and M. A. Winnik, *Can. J. Chem.*, 1984, **62**, 2560-2565.