

Fluorescence emission from Rhodamine-B lactone adsorbed at solid catalysts.
El-Rayyes, Ali A.; Al-Betar, A.; Htun, Than; Klein, Uwe K. A. Department of
Chemistry, King Fahd University of Petroleum and Minerals, KFUPM, Dhahran,
Saudi Arabia.

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Abstract

Fluorescence emission of RBL depends strongly on the polarity of the solvents and the emission max. shifts to the red with increasing polarity of the solvent. RBL adsorbed at the surfaces of Y zeolites (both HY and NaY) and ZSM-5 show 2 fluorescence bands at 440 and 580 nm where the peak at 440 nm is a new emission peak. The fluorescence intensities of both peaks vary with the loading level of the probe to the catalyst surface.