

The Determination of Mobility and Immobility of Water Adsorbed in Type 5A and 13X Zeolites by IR and DTA

F. Uçun

Physics Department, Faculty of Arts and Sciences, Süleyman Demirel University, Isparta, Turkey

Reprint requests to Dr. F. U.; Fax: +90-246-237 11 06;
E-mail:fucun@fef.sdu.edu.tr

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In this study, infrared (IR) and differential thermal analysis (DTA) data were used to investigate the mobility of water adsorbed in synthetic zeolites of type 5A and 13X with pore diameters of 5 and 10 Å, respectively. The results indicate that there are at least two types of water, mobile and immobile ones, in the narrow pore zeolite, while there is only mobile water in the wide pore zeolite.

Key words: IR; DTA; Mobility of Water; Type 5A Zeolite; 13X Zeolite.