

DETERMINATION OF SILANOL NUMBER ON SILICA-GEL PARTICLES BY DEUTERIUM EXCHANGE AND INFRARED SPECTROSCOPY

ALFRED A. CHRISTY, *Department of Chemistry, Agder University College, Serviceboks 422, Kristiansand, Norway.*

Silanol number in silica gel particles have been determined by analysing the composition of the H-O-D and D-O-D mixture formed by exchanging hydrogen from silanol groups with D<sub>2</sub>O. Multivariate data calibration was used in determining the composition from a calibration model. The BET surface area and the number of hydrogen atoms determined were used in determining the silanol number.