

CHARACTERIZATION OF SOLIDS BY THERMAL-DESORPTION IN SOLUTION

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Abstract

The use of equipment for thermoprogrammed desorption in solution for the characterization of porous surfaces is described and the calculations and results of the thermoprogrammed desorption of a dye in an aqueous solution from two porous adsorbents are given. The versatility of the equipment is demonstrated with other useful assays in the analysis of surfaces, such as the construction of isotherms in solution at elevated temperatures and the test for the detection of diffusional phenomena. A new technique is also described, along with some results: thermoprogrammed adsorption-desorption as a broader variant of thermoprogrammed desorption in solution.

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