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Playing Around with " Kaleidagraph" Program for Determination of pK_a Values of Mono, Di and Tri Basic Acids in a Physical-Organic Chemistry Laboratory

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ABSTRACT

A simple and easy laboratory protocol for the determination of the pK_a of mono, di and tri-basic weak acids is described in this paper by using arbitrarily simulated data as a function of pH. An equation compatible to Kaleidagraph program is derived and used in the program to determine the pK_a . The present protocol for the determination of the pK_a is useful in teaching chemistry experiments in a Physical-Organic Chemistry Laboratory.

KEYWORDS

 pK_a ; Kaleidagraph; Acid-Base Equilibriums

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