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The “Partial” Degrees of Dissociation of Weak Multibasic Organic Acids

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Abstract

New equations are suggested for the direct calculation of the “partial” degrees of dissociation of weak multibasic organic acids with overlapping dissociation equilibria. Considered are weak dibasic and tribasic acids, and the general case of a weak multibasic acid, H_nA. Taking into account the appreciable differences between these two forms of the degree of dissociation for many cases, the use of the “partial” degree of dissociation concept is recommended for analysis of the regularities of electrolytic dissociation of weak multibasic organic acids.

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