

Physical and chemical systems of dicarboxylic acids, aminoalcohol and water at 25 °C

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Abstract

Methods of physical and chemical analysis were applied to study the interaction of dicarboxylic acids – oxalic, malonic, succinic with monoethanolamine in an aqueous medium at 25 °C. Complex compounds having the composition: $\text{H}_2\text{C}_2\text{O}_4 \cdot \text{NH}_2\text{C}_2\text{H}_4\text{OH}$, $\text{CH}_2(\text{COOH})_2 \cdot \text{NH}_2\text{C}_2\text{H}_4\text{OH}$, $\text{C}_2\text{H}_4(\text{COOH})_2 \cdot \text{NH}_2\text{C}_2\text{H}_4\text{OH}$ were prepared. Their structures and biogenic properties were investigated. It has been established that the obtained complexes have a wholesome effect on the growth and development of cereal crops.