

THERMODYNAMIC PARAMETERS OF POTASSIUM BITARTRATE DURING THE YOUNG WINES COLD STABILIZATION

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Abstract. The present work was undertaken to study the effect of the treatment temperature on the potassium bitartrate stability and composition of young wines. The thermodynamic parameters, namely ΔG° , ΔH° , ΔS° were calculated to predict the nature of potassium hydrogen tartrate (KHT) precipitation. According to the achieved results, the exothermal nature and thermodynamical feasibility of KHT precipitation in young wines were established. Based on thermodynamics, negative ΔG° , ΔH° values and positive ΔS° value give a spontaneous KHT process at lower temperatures.

Keywords: cold stabilization, tartaric salts, thermodynamic parameters, young wines.

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