

## The determination of NSF plasticizer by UV – VIS spectrometric method

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**Abstract** This work presents an alternative analytical method for quantitative determination in aqueous solutions of the sodium salt of condensates naphthalene sulphonate formaldehyde (NSF).

Interaction of aqueous solutions of Methyl violet (MV) with concentration of  $0,3 \times 10^{-6} \text{M}$  with NSF plasticizer in concentration range of  $10^{-5} \text{M}$  has been investigated. Spectrometric measurements were performed at an UV-Vis spectrometer Hewlett Packard 8452A with diode array detection. Then the calibration curve of NSF was plotted in the concentration range  $4.0 - 7.8 \cdot 10^{-7} \text{M}$  and the obtained correlation coefficient is 0.99305.

*Keywords:* NSF, Methyl violet, spectrometric measurements

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