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# Spectrophotometric study of the complexing of pyrazolelyazopyrazolone derivatives

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**Abstract**

The processes of complex formation of some derivatives of pyrazolylazopyrazolones in ethanol aqueous solutions were studied by the method of spectrophotometric titration. As it was shown, the processes of complexing are accompanied by a batochrome shift of long wave absorption bands in the electronic absorption spectra of the organic molecules. The metal-to-ligand ratios are determined, and the ionization constants of the ligands and formation constants of the complexes are calculated. The correlation curves of the formation constants of the metallic complexes vs the physical characteristics of the complexing ions are obtained.