

## ABSTRACT

### 3-(ARILHİDRAZONAMETHYL)QUİNOXALİNE-2-ONE DYES

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In the synthesis of novel azo dyes was used 3-Methylquinoxaline-2-one as a coupling agent. This coupling agent was obtained by using condensation reaction between o-phenylenediamine and ethypyruvate. Novel 3-(Arylhıdrazono) metilquinoxaline-2-one dyes was obtained by using diazo-coupling reaction between various aromatic amines and coupling agent 3-Methylquinoxaline-2-one.

Chemical structure of novel azo dyes were characterized by using spectroscopic technique (FT-IR,  $^1\text{H-NMR}$  and  $^{13}\text{C-NMR}$ ) and the solvent effect on their UV-Visible absorption spectra in various solutions were examined.

**Key words:** Azo dye, diethylsquarate, 3-methylquinoxaline-2-on diazotization, spectroscopy