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دراسات كيميائية فيزيائية على بعض قواعد شيف المشتقة من أدوية السلفا

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**Abstract** : Aryl Schiff bases compounds derived from sulpha drug derivatives (sulphonamide I, sulphadiazine II and sulphamethaxazole III) with salicylaldehyde were prepared and investigated by different spectroscopic techniques (Uv - vis. IR, <sup>1</sup>H- NMR) and elemental analysis. The effect of solvent polarity parameters, metal ion and electron acceptor were studied, the study was extended to evaluate the dissociate constants (pKa) values of these compounds using spectrophotometric studies. New Co(II), Ni (II), Cu (II), Zn(II), Mn (II) and Fe (III) complexes of Schiff bases have been prepared and characterized by elemental analysis, IR, Uv - vis. atomic absorption spectra, conductometric measurements and thermogravimetric analysis. The thermal decomposition of the complexes follows first order, kinetics and thermodynamic parameters of the decomposition were calculated.

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