



Studies the Influence of Dielectric Constant of Medium on Stability Constants of Clobetasol propionate and its Complexes with Gd(III) Ion

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ABSTRACT

The solution studies of binary complex of Clobetasol propionate with Gd(III) ion have been performed. The protonation constant of clobetasol propionate and the stability constant of complexes with Gd (III) ion at 303.15K were investigated. The ionic strength is constant maintained 0.01M by adding NaClO₄. The pK and logK values of the complexes were determined in 10% to 50% ethanol - Water medium by the pH metric method. The pK and logK values of the complexes increased as ethanol content increased.

Keywords: Stability constant, Dielectric constant, Protonation constant.
