UV-VIS SPECTROPHOTOMETRIC INVESTIGATIONS OF CHARGE
TRANSFER COMPLEXES OF SOME COMPOUNDS CONTAINING
NITROGEN ATOM WITH CHLORANIL

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The formation of charge-transfer complexes play an important role in biological
reactions of living organisms contributing to chemical reactivity.
The data obtained about the formation of charge transfer complexes are of big
importance for many organic reactions, macromolecular association and
construction of electrical conductors.

CT complex forming reactions are used in the determination of electron
donating basic compounds such as δ-acceptors or π-acceptors can be used in
and increase the sensitivity and the accuracy of analytical methods.

This study concerns the Uv-Vis spectral investigation of charge-transfer
complexes (CT) obtained by the reaction of the compounds containing
nitrogen atoms with electron pairs, such as aniline, 2-aminophenol,
hydroxylamine and ammonia with chloranil acceptor.

The spectral properties of CT complexes are effected by the structural
features of donor atoms and electron acceptors and the solvent polarity.