



# VISTA INTERNATIONAL JOURNAL ON ENERGY, ENVIRONMENT & ENGINEERING



## Conductometric Studies of Substituted Flavones at 294K

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### ABSTRACT

The conductivity a valuable due to its high reliability, sensitivity, fast response, and the relatively low cost of the equipment make, easy-to-use tool for quality control. In recent years, scientists have turned to various flavonoids to explain some of the health benefits associated with diet rich in fruits and vegetables. Conductometry is a measurement of electrolytic conductivity to monitor speed of chemical reaction. Conductometry has remarkable application in analytical chemistry. Conductometry is used to describe non-titrative applications. The substituted flavones have medicinal, biological and pharmacological values. Hence, it was thought interesting to study conductometric analysis of substituted flavones at 294K temperature.

**Keywords:** Conductometry, analytical chemistry, electrolytic conductivity, conductometric analysis, substituted flavones.

### 1. Introduction :

For more than 100 years, electrical conductivity has been measured in practice and it is still widely used as an analytical parameter even today. The conductometry is the analytical method used both in research laboratories as well as in industry. The theoretical assumption of this method is the fact that the electrolytic conductivity is the result of the motion of anions and cations. The technique is unable to differentiate between different kinds of ions. The reading is proportional to the combined effect of all ions in the sample. So, it is an important tool for monitoring and surveillance of a wide range of water types and other solvents. It is also used to determine

the concentrations of conductive chemicals [1].

The heterocyclic compounds show good conductometric result [2], out of these flavonoid families have their own importance. As, flavonoids are a diverse group of phytonutrients found in almost all fruits and vegetables. In recent years, scientists have turned to various flavonoids to explain some of the health benefits associated with diet rich in fruits and vegetables. Flavones are one of the important part of the diet, these include good antioxidant, anticancer properties that can studied different physico-chemical processes, conductometry also help to show ionic interactions in molecules.

Taking all these things into consideration the

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