



ChemTech

## International Journal of ChemTech Research

CODEN(USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555  
Vol.11 No.03, pp262-264,2018

### Kinetic study on the oxidation of Phenyl Vinyl Sulfide with Iron(III)-Polypyridyl complexes in the presence of Anionic Micelle

Balakumar P<sup>1\*</sup>, Balakumar S<sup>\*2</sup>,  
Subramaniam P<sup>\*3</sup>, SweetlinRajulaRubavathi D<sup>4</sup>

<sup>1</sup>Dr. SivanthiAditanar College of Engineering, Tiruchendur 628 215, India

<sup>2</sup>PSN College of Engineering and Technology, Tirunelveli 627 152, India

<sup>3</sup>Aditanar College of Arts & Science, Tiruchendur 628 216, India

<sup>4</sup>Loyola College, Nungambakkam, Chennai 600034, India

**Abstract:** The present study to investigate the effect of anionic surfactant, SDS on the ET reactions of Phenyl vinyl sulfide with  $[\text{Fe}(\text{NN})_3]^{3+}$  by spectrophotometric techniques is more helpful to understand the role of electrostatic and hydrophobic interactions.

**Keywords:** Kinetic study, oxidation, Phenyl Vinyl Sulfide, Iron(III)-Polypyridyl complexes, Anionic Micelle.

International Journal of ChemTech Research, 2018,11(03): 262-264

DOI : <http://dx.doi.org/10.20902/IJCTR.2018.110330>

\*\*\*\*\*