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### **Corrosion Study of Mild Steel In 0.5M Trichloroacetic Acid By Potentiodynamic Method**

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#### **ABSTRACT**

*Four Schiff bases are studied as inhibitors for Mild steel in 0.5M trichloroacetic acid by potential measurement. The inhibition effect was studied at different concentrations of the inhibitors. The potential measurement was studied at dip time and up to 60 min for both uninhibited and inhibited at  $35 \pm 0.1^\circ\text{C}$ . Shift of potential in presence of different concentrations of inhibitors was calculated. Negative potential at dip time indicate cathode polarization and the potential shows a positive shift in presence of inhibitors. The positive shift in potential shows that the Schiff bases are efficient inhibitors for mild steel in 0.5M trichloroacetic acid. Potentiodynamic method can be used in screening the inhibitors as inhibitor.*

**Keywords:** Mild Steel, Schiff bases, Trichloroacetic acid.

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