| Table 1: EMF measured for various concentrations of MIMM+ system | | | | | |
|--|--------------|--|---------|------------|--|
| Electrode/ Electrolyte | tlectroys | ξ Ε _{ιείι} (v) | EN/M+ = | | Arerage EDMINH |
| Zu (Zn ²⁺ | 0.01 | -0.998 | -0.154 | -0.691 | |
| | 0.05 | -1.025 | - 0.779 | - o. 755 | - 0.725 |
| | 0.1 | -1.035 | - 0.791 | - 0.752 | |
| ω 1ω ²⁺ | 0.01 | 0.275 | 0.519 | 0.582 | 0.702 |
| | 0.05 | 0.400 | 0.644 | 0.690 | |
| , • | .0.1 | 0.550 | 0.194 | 0.833 | |
| $\frac{E_{\text{N}}^{\text{O}}}{\mu_{\text{N}}} = E_{\text{M}} = \frac{0.0595}{\mu_{\text{N}}} \log (y_{\text{C}} \times c)$ | | | | | |
| Table 2: Individual activity coefficients of w2+ and 2n2+ in water at 25°c | | | | | |
| Metal ion system (w2+/2n2+) | | 0.002 | 0.005 | 0.02 | 0.1 0.2 |
| Activity we | fficient 0.9 | 05 0.870 | 0.749 | 0.675 0.57 | 0.485 0.405 |
| Table 3(1): EMF of Daniel Cell observed from two different concentrations of zinc and copper solutions (AF 30°C/305K) | | | | | |
| [.w2+] | (2m2+) | Eceil (calculated by Nernst Equation) | | 7. Error | free - energy change (06) or whax (KJ/mol) |
| 0.01 H | 0.05 M | 1.08 V | 0.99 v | 8.5./. | -191.1 |
| 0.05 M | 0.01 M | 1.121 V | 1.013 V | 9.6.1. | -195.5 |
| 0.1 H | 0.1 H | 1.1 V | 1.068 V | 2.9./. | - 206.1 |