
LIST OF TABLES

LIST OF TABLES

PART - I

2.1 : Table for magnifications

PART - II

- 4.1 : Table showing length (L) and wt. loss per cm² at various times for lactic acid (100% by vol.)
- 4.2 : Table showing length (L) and wt. loss per cm² at various times for formic acid (10% by vol.)
- 4.3 : Table showing rates of tangential and surface dissolutions (V_t and V_s) for various concentrations of lactic acid at temperatures ranging from 20 80°C.
 - 4.4 : Table showing rates of tangential and surface dissolutions (V_t and V_s) for various concentrations of formic acid at temperatures ranging from 10 60°C.
- 4.5 : Table showing various shapes of etch pits with their characteristics.
- 4.6 : Table showing p_{H} for various concentrations of lactic and formic acids.
- 4.7 : Electrical conductivity, δ_{c} , for various concentrations of lactic acid.
- 4.8 : Electrical conductivity, 6, for various concentrations of formic acid.

- 4.9 : Values of n₊, n_s, n_c, n_c for lactic acid.
- 4.10 : Values of n_t, n_s, n₆ and n_c for formic acid.
- 4.11 : Viscosity of lactic acid for various concentrations at 25 °C.
- 4.12 : Viscosity of formic acid for various concentrations at 20°C.
- 5.1: : Activation parameters for lactic acid.
- 5.2 : Activation parameters for formic acid.
- 5.3 : Various shapes of etch pits with their characteristics.
- 5.4 : Viscosity of formic acid at various temperatures.
- 5.5 : Temperature dependence of peak concentration. (lactic adid).

PART - III

- 6.1 : Table showing various shapes of indenters with their characteristics.
- 7.1 : Table showing knoop and Vickers diagonals for various quenching temperatures.
- 7.2 : Values of a and n for Knoop indenter in low and high load regions.
- 7.3 : Values of a and n for Vickers indenter in low and high load regions.
- 8.1 : Knoop hardness number (H_k) for various quenching temperatures and loads (P)

- 8.2 : Vickers hardness number (H_V) for various loads and quenching temperatures (T_R).
- 8.3 : Average hardness values in HLR
- 8.4 : Average hardness values (calculated) in HLR.
- 8.5 : $\log T_Q/c_k^2$ values in HLR
- 8.6 : log T_O/d_v2 values in HLR
- 8.7 : $\log (a_2 d_k^2/T_0)$ values in HLR
- 8.8 : $\log (a_2 d_v^2/T_0)$ values in HLR
- 8.9 : $\log (\bar{H}^{T}_{a/a_2})$ values in HLR
- 8.10 : Table showing constants A, B, D, E.
- 8.11 : Average values of constants Ak, Bk, Dk, Ek,
- 8.12 : Average values of Av, Bv, Dv and Ev
- 8.13 : Electrical conductivity of calcite for various temperatures.
- 8.14 : $\log (T_{Q}d_{k})$ values in HLR
- 8.15 : $\log (T_Q d_v)$ values in HLR
- 8.16 : $\log \left(-\frac{\zeta_{c}}{H}\right)$ values for various temperatures in HLR
- 8.17 : $\log \left(\frac{\sqrt{2} k}{\overline{u}} \right)$ values in HLR

APPENDIX

A : Properties of lactic acid isomers.