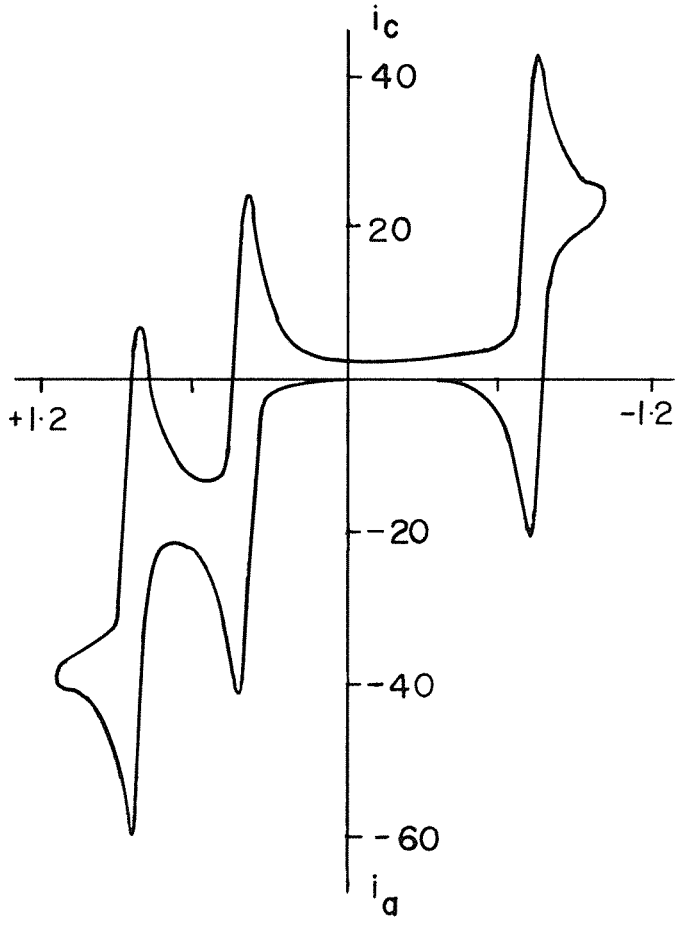
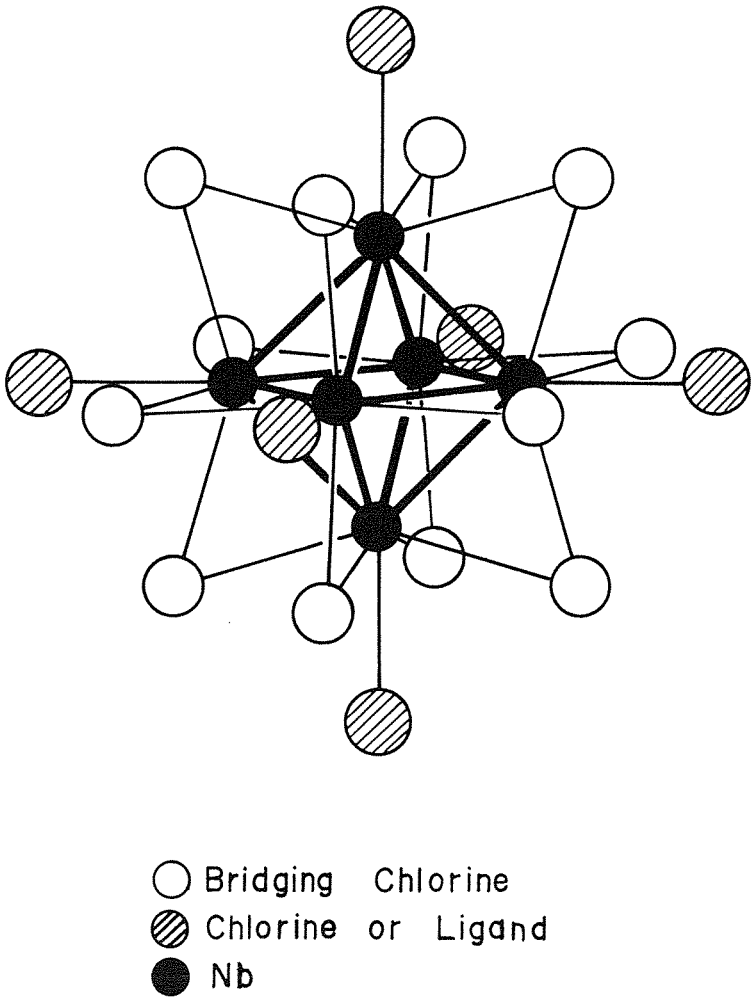
CV NOTES

$Nb_6Cl_{14}(PPr^n_3)_4$





SAMPLE: $Nb_6Cl_{14}(PPr^n_3)_4$

MEDIUM: 0.2 M $(t\text{-butyl})_4N^+PF_6^-$ IN CH_2Cl_2

CONC: UNKNOWN

RATE: 200 mV/sec

ETRODE: Pt BEAD

REF: Ag/AgCl

MODEL: CV-1A

METAL ATOM CLUSTER COMPOUNDS OFTEN EXHIBIT AN UNUSUAL NUMBER OF CHEMICALLY AND ELECTROCHEMICALLY REVERSIBLE CYCLIC VOLTAMMETRIC WAVES. IN THE PRESENT CASE THE NEUTRAL CLUSTER MAY BE OXIDIZED TO A CATION AND THEN TO A DICATION, OR REDUCED TO AN ANION. CYCLIC VOLTAMMETRY CAN BE ONE OF THE TRANSITION-METAL CHEMIST'S BEST FRIENDS AS ACKNOWLEDGED BY DOUG KLENDWORTH AND PROF. R.A. WALTON OF PURDUE UNIVERSITY WHO SUBMITTED MATERIAL FOR THIS CV NOTE.

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