

EXPERIMENT : 33

PART B

PREPARATION AND ANALYSIS OF A COORDINATION COMPOUND : POTASSIUM TRISOXALATOFERRATE (III)

DATA AND OBSERVATIONS

Name(s) : _____ Date : _____

Class/Section : _____ Instructor : _____

Part A. Preparation of $K_3[Fe(C_2O_4)_3] \cdot 3H_2O$ (first week)

Mass of ferrous ammonium sulfate hexahydrate =

Volume of 1 M oxalic acid =

Part B. Analysis of Oxalate in $K_3[Fe(C_2O_4)_3] \cdot 3H_2O$ (second week)

Preparation of potassium permanganate

Mass of potassium permanganate used = 0.885 g

Standardization of potassium permanganate

Mass of beaker + sodium oxalate = 30.65 g

Mass of empty beaker = 30.50 g

Initial buret reading = 0.0 mL

Final buret reading = 32.0 mL

Volume of potassium permanganate added = 32.0 mL

Analysis of iron complex

Mass of green iron complex	=	2.25 g
Mass of beaker + iron complex used for analysis	=	27.86 g
Mass of empty beaker	=	25.61 g
Initial buret reading	=	0.0 mL
Final buret reading	=	40.05 mL
Volume of potassium permanganate added	=	40.05 mL