

EXP. NUMBER	EXPERIMENT/SUBJECT: <u>characterization</u>	DATE: <u>2/28/11</u>	13
NAME: <u>Freeman</u>	LAB PARTNER	LOCKER/DESK NO.	COURSE & SECTION NO.

Magnetic susceptibility

Copper-Tpp (pre-prepared)
 $R_0 = -30$ $l = 1.5 \text{ cm}$
 $m_{\text{tube}} = .805$ $R = 8$
 $c = 1.002$ $m_{\text{st+}} = .877$
 $\chi_m = -4.03 \times 10^{-4}$ $T = 18^\circ\text{C}$

final mass of
product + vial + tape
 $= 13.486 \text{ g}$
 $- 13.005 \text{ g}$

$$m_{\text{product}} = \frac{0.481}{0.5458} \cdot 100$$

theo. yield
of i-Tpp = 88.13%

Nichel-Tpp (our product)

$m_{\text{tube}} = 0.795 \text{ g}$
mag susceptibility of tube = ~~LHA-27~~
length: 2.0 cm
mag. sus. of sample = ~~AK-44~~
 $c = 1.002$
mass of tube + sample = 0.863 g

NMR

solvent: deuterated chloroform

UV-Vis

final product mass = ~~0.031~~ ~~0.032~~ $.032 \text{ g}$
(purple)

COPY

For Lab Report

use Lit. for UV-Vis + NMR
no Lit. for IR + Mag. Susceptibility

SIGNATURE	DATE	WITNESS/TA	DATE
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