

TABLE OF CONTENTS

Licensing

1: Preface and Acknowledgements

- 1.1: Original Sources of Experiments
- 1.2: Safety Information
- 1.3: Laboratory Rules and Notebooks
- 1.4: Introduction to NMR Spectroscopy
- 1.5: Experimental Techniques
- 1.6: Sources of Information

2: The Alane-Amine Adduct $(\text{C}_2\text{H}_5)(\text{CH}_3)_2\text{N-AlH}_3$ (Experiment)

3: $\text{Ph}_2\text{PCH}_2\text{CH}_2\text{PPh}_2$ and $\text{NiCl}_2(\text{dppe})$ (Experiment)

4: Metal-Metal Quadruple Bonds (Experiment)

5: The Paramagnetic Complex $\text{Mn}(\text{acac})_3$ (Experiment)

6: B- Synthesis of Synthetic Opal (Experiment)

7: F- Preparation of Ferrocene $\text{Fe}(\eta^5\text{-C}_5\text{H}_5)_2$ (Experiment)

8: H- Wilkinson's Catalyst (Experiment)

- 8.1: Part A- Synthesis of Wilkinson's Catalyst
- 8.2: Part B- Homogeneously-Catalyzed Hydrogenation of an Alkene

Index

Glossary

Detailed Licensing