

NAME: _____

LAB SECTION: _____

Maximum Score: 87.5 points			
Title Page (2.5 points)		Results (12 points) (3 points each)	
Name, lab section, and title included		Results of synthesis reported. Physical description and percent yield for the product was included.	
Abstract (12 points) (3 points each)		Melting points for synthesized product and literature value reported.	
Main purpose was stated clearly, concisely and correctly.		TLC data reported clearly and thoroughly. Rf values calculated and reported.	
All methods included and described clearly and concisely. Procedures clearly understood.		IR data reported (tabular form) and consistent with the synthesized product. Major peaks identified. Spectrum included appropriately as an appendix or figure.	
All results reported clearly and concisely.			
A logical conclusion was reached and was related to the results and main purpose.			
Introduction (6 points) (3 points each)		Discussion (25 points) (5 points each)	
Purpose clearly stated. Reaction scheme included.		TLC data was analyzed and used to evaluate the identity and purity of the product.	
Methods used to achieve purpose were clearly described.		Peaks in IR spectrum were explicitly compared with expected peaks for the synthesized product. Major peaks identified correctly.	
		Experimental melting point was explicitly compared with literature value and product was analyzed based on this result.	
Procedures (8 points) (2 points each)		Comments and analysis on the appearance and percent yield of the product were included. Explanations for the reported percent yield discussed.	
Triphenylmethanol synthesis procedure referenced appropriately.		A clear and logical conclusion was presented and emphasized based on analysis of all experimental data. The conclusion was related to purpose of experiment.	
Method of sample preparation for IR analysis described properly. Specific instrument used was included.			
TLC analysis procedure described with appropriate details (stationary and mobile phases, detection methods included).		References (4 points) (2 points each)	
Melting point instrument used was described.		All references were appropriate and listed references were complete.	
		Proper bibliographic format was used.	
Writing Mechanics (10 points) (5 points each)		Presentation (8 points) (4 points each)	
The sentences were complete and coherent. Proper grammar, tense and voice were used. All terminology was used appropriately.		The proper organizational format was used. The font and margin sizes are appropriate. The report was the appropriate length.	
Overall coherence and style. There is a flow to the report. The report was free of typographical and spelling errors. The transitions between paragraphs and sections are logical.		Tables and graphs were used appropriately for presentation of procedures, data, results and/or data analysis.	

Maximum points = Complete, accurate and appropriate
 Partial Points = Somewhat incomplete, inaccurate and/or inappropriate
 No points = Significantly incomplete, inaccurate and/or inappropriate