



Illinois Wesleyan University
Digital Commons @ IWU

John Wesley Powell Student Research
Conference

1992, 3rd Annual JWP Conference

Apr 25th, 10:30 AM - 4:30 PM

Amino Acid Detection Using 1,8-Diazafluoren-9-One and Analogs

Kevin D. Crawford
Illinois Wesleyan University

Forrest J. Frank, Faculty Advisor
Illinois Wesleyan University

Follow this and additional works at: <https://digitalcommons.iwu.edu/jwprc>

Crawford, Kevin D. and Frank, Faculty Advisor, Forrest J., "Amino Acid Detection Using 1,8-Diazafluoren-9-One and Analogs" (1992). *John Wesley Powell Student Research Conference*. 41.

<https://digitalcommons.iwu.edu/jwprc/1992/posters/41>

This Event is protected by copyright and/or related rights. It has been brought to you by Digital Commons @ IWU with permission from the rights-holder(s). You are free to use this material in any way that is permitted by the copyright and related rights legislation that applies to your use. For other uses you need to obtain permission from the rights-holder(s) directly, unless additional rights are indicated by a Creative Commons license in the record and/ or on the work itself. This material has been accepted for inclusion by faculty at Illinois Wesleyan University. For more information, please contact digitalcommons@iwu.edu.

©Copyright is owned by the author of this document.

AMINO ACID DETECTION USING 1,8-DIAZAFLUOREN-9-ONE AND ANALOGS

Kevin D. Crawford and Forrest J. Frank*

Department of Chemistry
Illinois Wesleyan University
Bloomington, IL 61702

The newest reagent for the detection of the amino acids present in latent fingerprints is 1,8-diazafluoren-9-one (1). However, the fluorescence observed with this compound is sometimes obscured by the fluorescence of certain papers. Thus, several analogs have been synthesized by other researchers (2-7) in an attempt to find a better reagent. This research investigates the UV-visible and fluorescence properties of the reaction products of these compounds with amino acids both in solution and on paper.

