



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

Synthesis of 1,8-Diazadibenzo[b,h]fluoren-9-one for Use as a Fingerprinting Agent

Brian Werner
Illinois Wesleyan University

Forrest J. Frank, Faculty Advisor
Illinois Wesleyan University

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

Werner, Brian and Frank, Faculty Advisor, Forrest J., "Synthesis of 1,8-Diazadibenzo[b,h]fluoren-9-one for Use as a Fingerprinting Agent" (1992). *John Wesley Powell Student Research Conference*. 5.
<https://digitalcommons.iwu.edu/jwprc/1992/posters/5>

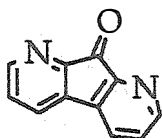
This Event is protected by copyright and/or related rights. It has been brought to you by Digital Commons @ IWU with permission from the rights-holder(s). You are free to use this material in any way that is permitted by the copyright and related rights legislation that applies to your use. For other 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.

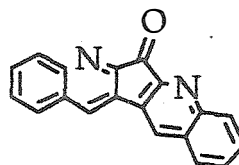
SYNTHESIS OF 1,8-DIAZADIBENZO[b,h]FLUOREN-9-ONE FOR USE AS A FINGERPRINTING AGENT

Brian Werner and Forrest J. Frank, Illinois Wesleyan University

In the detection of latent fingerprints, 1,8-diazafluoren-9-one (1) is used. It reacts with amino acids to give a fluorescing product. The objective of this research is to prepare an analog, 1,8-diazadibenzo[b,h]fluoren-9-one (2), which reacts similarly with the amino acids. However, the increased conjugation in (2) should improve the fluorescence of the product away from background fluorescence which is a problem with 1,8-diazafluoren-9-one.



(1)



(2)