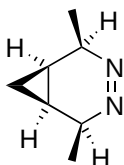


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problem set 10 (dealing with lecture 11)



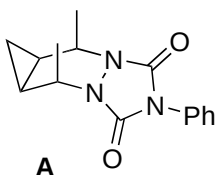
One difficulty associated with handling "this" substance is that it undergoes a prototropic shift to afford the more stable hydrazone. Illustrate this process, when acid catalyzed, and formulate a mechanism under these conditions.



cycloheptatriene

1,3-Cycloheptatriene undergoes a thermally promoted electrocyclization.

- [a] Formulate the reaction of PTAD with the electrocyclization product. Pay particular attention to stereochemistry.
[b] Show how to convert that substance to **A** [*JACS*, **91**, 777].



What's wrong with the following plan?

