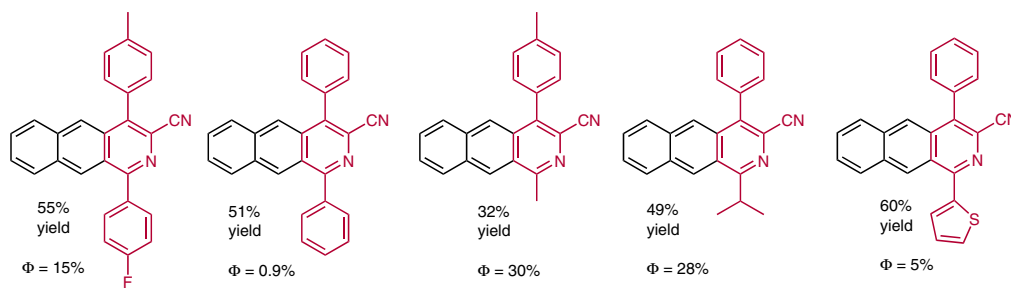
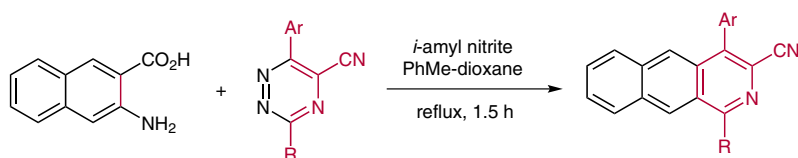


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3-Cyano-2-azaanthracene-Based ‘Push-Pull’ Fluorophores: A One-Step Preparation from 5-Cyano-1,2,4-triazines and 2,3-Dehydronaphthalene, Generated in Situ
Tetrahedron Lett. **2016**, *57*, 5639–5643.

Azaanthracenes via Inverse Electron-Demand Diels–Alder Reaction



Significance: Azaanthracenes are important fluorophores that are used in a number of applications such as metal or pH sensors. In this report the authors describe a new synthesis of this type of structure via an inverse electron-demand aza-Diels–Alder reaction between a benzyne derivative and an electron-deficient triazine.

Comment: The benzyne derivative is generated in situ from the diazotization of 2-amino-3-naphthoic acid. It was found that the cyano activating group at the 5-position of the triazine is crucial for the reaction to take place because it offers a smaller energy difference between the cycloaddition HOMO and LUMO.