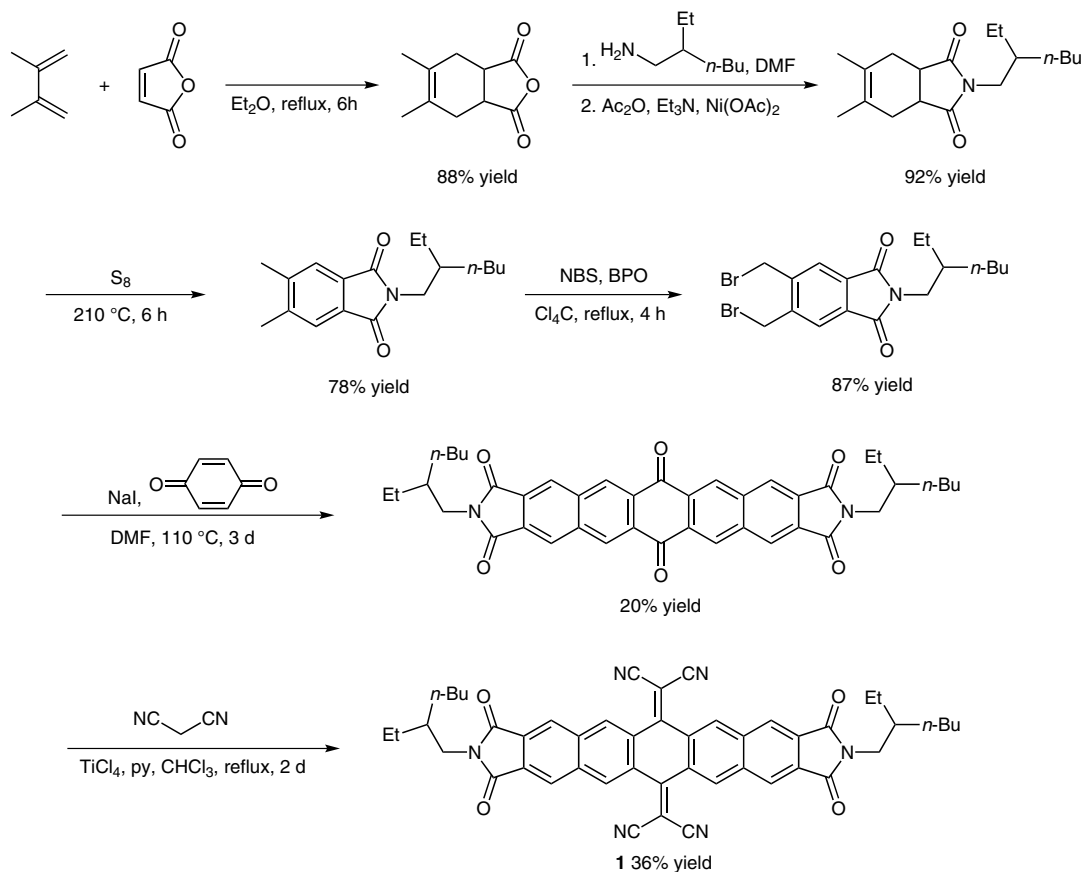


Electron-Acceptor Pentacene Derivative



Significance: This paper reports the synthesis of an extended tetracyanoquinodimethane (TCNQ) analogue, **1**. Although this is not the first report of a TCNQ-like acene, the method reported by the authors consists of only six steps, including a double Diels–Alder reaction and a Knoevenagel condensation as key steps. The presence of the diimide substituents not only increases the solubility of the final molecule, but also has implications on its electronic properties.

Comment: Electron-acceptor molecules are essential in organic electronic materials, and an important property of such molecules is the LUMO energy level. The authors report a LUMO level of -4.03 eV for **1**, which makes this molecule and derivatives of it, good candidates for a variety of applications.