

corannulenes

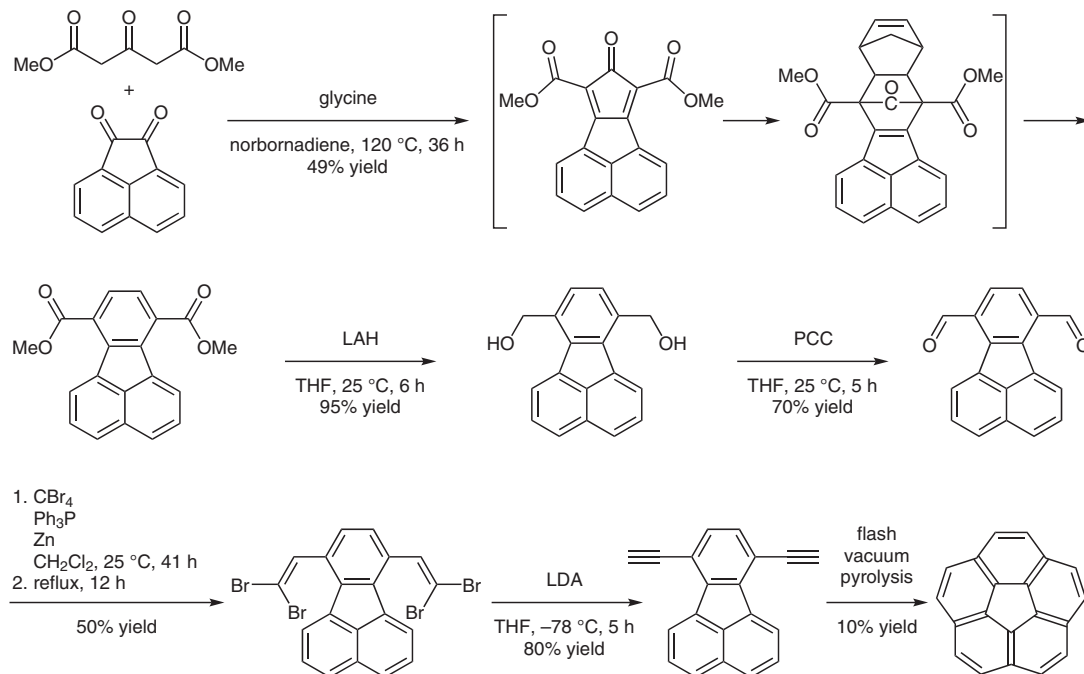
flash vacuum
pyrolysispolycyclic aromatic
hydrocarbonsSynfact
Classic

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Corannulene. A Convenient New Synthesis

J. Am. Chem. Soc. **1991**, *113*, 7082–7084.

Synthesis of Corannulenes Revisited



Significance: In 1991, Scott and co-workers reported a convenient synthesis of corannulene. Corannulenes are interesting because of their unique optoelectronic properties arising from their bowl-shaped structure. The production of corannulene is currently possible on a kilogram scale, and corannulene has found many applications in materials.

Comment: Flash vacuum pyrolysis of the tetrabromide intermediate also resulted in corannulene. The unprecedented carbon NMR spectrum of corannulene exhibited three peaks.