Corannulene. A Convenient New Synthesis


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.