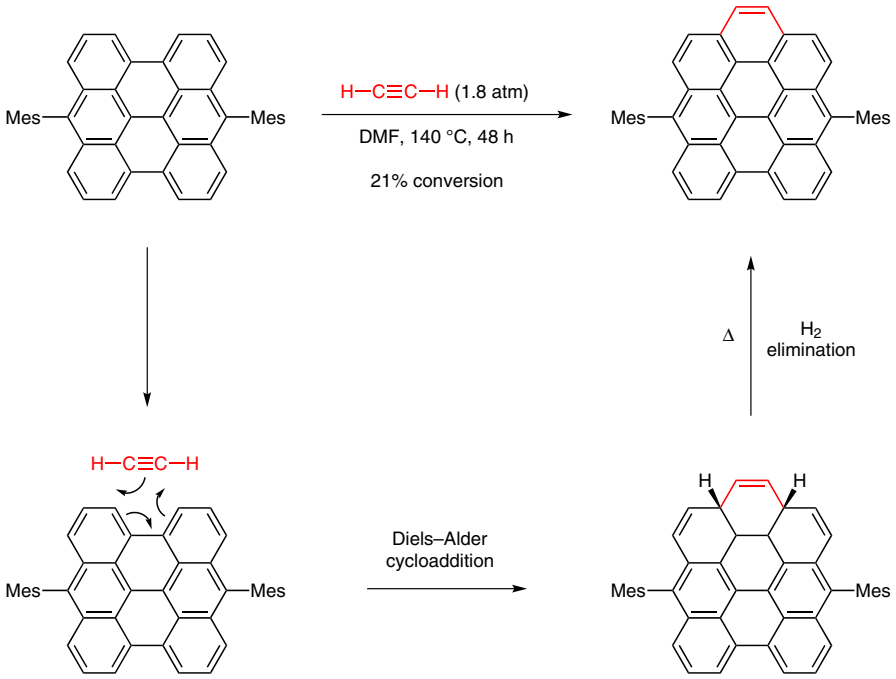
E. H. FORT, M. S. JEFFREYS, L. T. SCOTT* (BOSTON COLLEGE, CHESTNUT HILL, USA)
Diels–Alder Cycloaddition of Acetylene Gas to a Polycyclic Aromatic Hydrocarbon Bay Region
Chem. Commun. **2012**, *48*, 8102–8104.

Use of Acetylene Gas as Dienophile in a Diels–Alder Reaction



Significance: The use of acetylene gas as the dienophile in a cycloaddition Diels–Alder reaction to the bay region of a polyaromatic hydrocarbon is reported for the first time.

Comment: The sequence of cycloaddition followed by hydrogen elimination–rearomatization utilizing acetylene might prove to be a useful tool in the preparation of larger polyaromatic hydrocarbons, such as uniform carbon nanotubes, from small hydrocarbon templates.

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Category

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Key words

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