

C. Unusual Cycloadditions

Octamethylcyclopentene, synthesized as described in B, was transformed into a *s-cis* fixed 1,3-diene with sterically shielded 2- and 3-positions. The investigation of unusual cycloadditions of this diene (review # 106), e.g. [4+3]-cycloadditions of nitrones (# 65, 94), [4+1]-cycloadditions of carbenes (# 43), [4+2]-cycloadditions of ketenes (# 69), [4+3]-cycloadditions of 2-azaallyl anions (# 117), and noncatalyzed [4+4]-cycloadditions of 1,4-dienes (# 93) gave insight in the “concertedness” of various cycloadditions.

