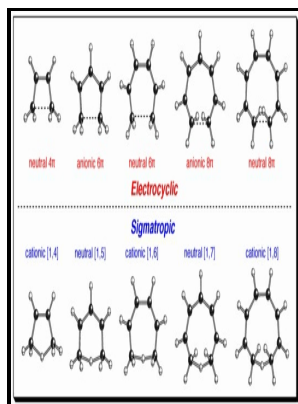


Anionic sigmatropic rearrangements

- - Sigmatropic Rearrangements



Description: -

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Notes: Thesis (M.Sc.) - University of Sheffield, Dept. of Chemistry, 1980.

This edition was published in 1980



Filesize: 12.69 MB

Tags: #[2,3]

Carbocation Rearrangements

There are included the Cope and Claisen rearrangements, along with a number of their variations, such as the oxy-Cope, thio- and amino-Claisen rearrangements, and Carrol reaction as well as the Saucy-Marbet, Meerwein-Eschenmoser, Johnson, and Thomas methods. MacMillan Princeton has published in the area of asymmetric Claisen rearrangements. Woodward and coworkers at Harvard.

Concertedness in [2,3] anionic sigmatropic rearrangements

Sigmatropic Rearrangements Introduction An interesting group of pericyclic reactions involves the migration of a sigma bond from one site to another within the same molecule. Its application here offers great stereochemical control, and its use is far more general than the relatively unsuccessful routes that had been employed before its development. Once the carbocation has shifted over to a different carbon, we can say that there is a structural isomer of the initial molecule.

2,3

It is thermally allowed when it occurs in a disrotatory fashion. Journal of the American Chemical Society 2003, 125 33 , 9983-9987.

Oxy

This procedure allows rapid access to mono sulfur-containing acenes, and is applicable to small scale library synthesis. This also explains the high energy requirement to perform a Cope rearrangement.

Carbocation Rearrangements

In short, this means that everything happens in one step. Degenerate Cope rearrangement of bullvalene. The numbering starts from the sigma bond that is broken and counted through the pi framework up to the termini where the new sigma bond is formed.

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