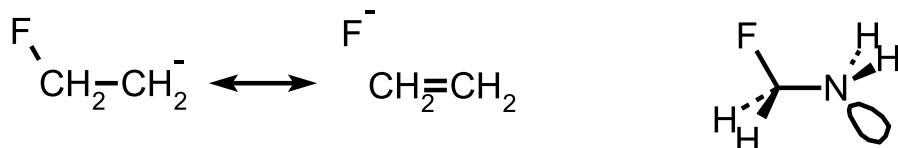


negative hyper-conjugation

The effect of donation of electron density from filled π or n_{π} -orbitals to the symmetry adapted σ^* -orbital(s) of σ -bond(s) of a molecular entity resulting in building π -character into bonds that nominally possess only σ -character. The consequences of the effect are, for example, in elongation of the C–F bond in the β -fluoroethyl anion and stabilization of the anti-periplanar conformation of fluoromethylamine.



Source:

PAC, 1999, 71, 1919 (*Glossary of terms used in theoretical organic chemistry*) on page 1954