## semi-empirical quantum mechanical methods

Methods which use parameters derived from experimental data to simplify computations. The simplification may occur at various levels: simplification of the Hamiltonian (*e.g.*, as in the Extended Huckel method), approximate evaluation of certain molecular integrals (see, for example, Zero differential overlap approximation), simplification of the wavefunction (for example, use of a Pi ( $\pi$ ) electron approximation as in Pariser–Parr–Pople method), *etc*.

## Source:

PAC, 1999, 71, 1919 (Glossary of terms used in theoretical organic chemistry) on page 1962