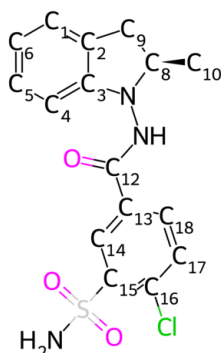


C-oxidation BDE Energy Report for: indapamide

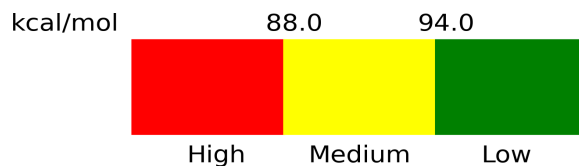
This report covers the results for BDE calculations performed for: indapamide. Oxidation propensity is established using C-H Bond Dissociation Enthalpies (BDE). The lower the C-H BDE values the higher the propensity for C-oxidation. Details for the DFT calculations and overall workflow are explained at the end of this document

Bond Dissociation Energies (kcal/mol)



Atom	BDE (kcal/mol)	Propensity
C1	112.53	Low
C4	113.96	Low
C5	112.4	Low
C6	113.02	Low
C8	90.37	Moderate
C9	85.44	High
C10	101.98	Low
C14	107.42	Low
C17	113.12	Low
C18	114.56	Low

Risk Scale:



Calculation details and output files

Conformational search calculations were performed only for the base ground state molecule. The lowest energy conformer was selected to generate radicals and run optimization DFT calculations. DFT calculations were performed using Gaussian with B3LYP level of theory and 6-31G(d,p) basis set. The BDE protocol was adapted from: *Lienard, P., Gavartin, J., Boccardi, G., & Meunier, M. (2015). Predicting drug substances autoxidation. Pharmaceutical research, 32, 300-310.*

Output files: /home/wanjiach/indapamide