a) a picture of the molecule using GaussView, including the atom numbering used in the Gaussian calculation

A molecule model with white and grey balls

AI-generated content may be incorrect.

styrene.png

A molecule model with numbers and spheres

AI-generated content may be incorrect.

styrene\_charge.png

(b) the archive entry from the end of the Gaussian output (so that I can see the details of your calculation) and the total energy (6 decimal places)

A screenshot of a computer

AI-generated content may be incorrect.

styrene\_results\_log.png

(c) a picture of the highest occupied molecular orbital and its orbital energy

(d) a picture of the lowest unoccupied molecular orbital and its orbital energy

A screenshot of a computer

AI-generated content may be incorrect.

styrene\_homolumo.png

(e) a list of the Mulliken charges (2 decimal places, atom numbers) and the dipole moment.

A screenshot of a computer

AI-generated content may be incorrect.

styrene\_dipole\_moment.png

A screenshot of a computer

AI-generated content may be incorrect.

styrene\_mulliken\_charges.png

Not sure if needed but the electrostatic potential mapped on the density surface:

A screenshot of a computer

AI-generated content may be incorrect.

styrene\_electrostaticV.png