Graphene Oxide as an effective adsorbent for (2E, 5E)-2,5- Bis(4-methoxybenzylidene) cyclopentanone

Ardhmeri Alija
Admir Omaj , Rilinda Plakaj , Veprim Thaqi, Kledi Xhaxhiu , Makfire Sadiku, Fetah Podvorica , Avni Berisha
University of Prishtina , "Nëna Terezë" street ,10 000 Prishtina, Republic of Kosova
ardhmerialija555@gmail.com

Graphene oxide (GO) has attracted the interest of many scientists because of its extraordinary properties, not only because it possesses a large surface area, but also has many oxygenated polar groups (-hydroxyl, -epoxy, -carboxyl). Graphene oxide is evaluated as an adsorbent for the organic molecule such as (2E, 5E) -2,5-bis (4-methoxybenzylidene) cyclopentanone dissolved in organic solvent such as acetonitrile. The functional groups in GO were characterized by using an FTIR spectrometer.The concentration of the organic molecule after adsorption is analyzed using ultraviolet-visible spectroscopy.

References

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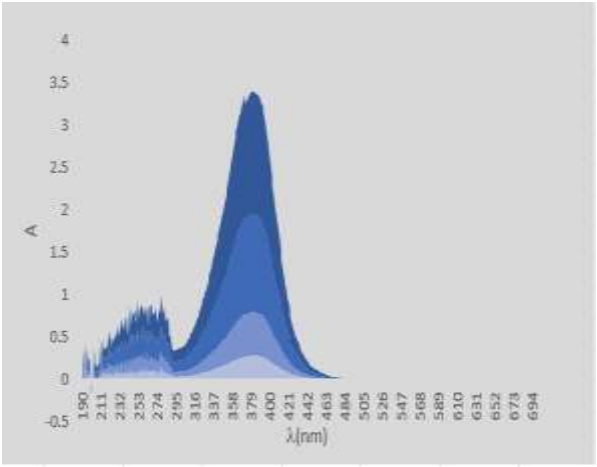
Figures



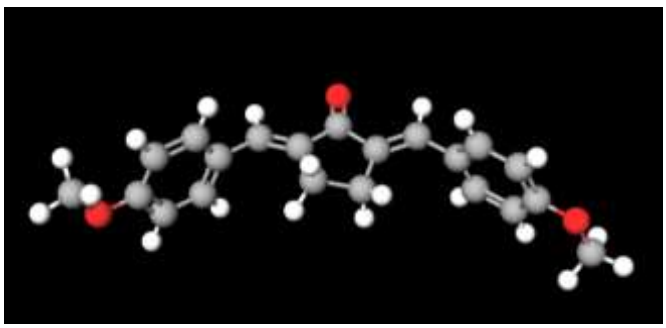


Figure 1: UV –VIS spectrum of (2E, 5E) -2,5-bis (4-methoxybenzylidene) cyclopentanone in organic solvent such as acetonitrile.
Figure 2: Structural formula of (2E, 5E) -2,5-bis (4-methoxybenzylidene) cyclopentanone