UV-Vis Spectroscopy

"Master Organic Chemistry" mulation or granting the miletry cross

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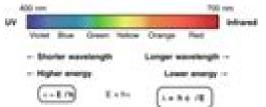
Key points: ... White spectroscopy measures a notecohol absorption shapp at different wavelengths is

- The assertingth of maximum absorbance (i.e.,) is largely determined by the # of consecutive destinates.
- · Generally: the prestor the number of conjugated at bonds, the higher the Aver ("lambda-mas")
- . The lambda max (1......) fells us the energy AC required to promote an electric from the hadrest energy occupied molecular orbital (FIGMC), of the pt system to the lowest energy unoccupied inciscular orbital LURIC).
- As the number of consecutive at locals increases, this PONO-CURO energy use (UE) decreases. Many inscripting. proments in g. home, chiumphuli, carcherer; have multiple consignied pi formis and absorb in the visible region. We asse the "complementary" color is g. choruphyf absorbs in pelice. but we see it as greeni.
- CurO bonds also absorb VM leafs (business around 200 res)

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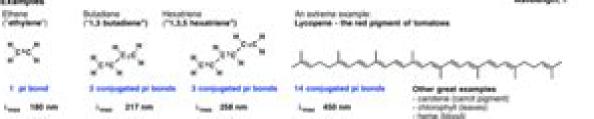
Example of a SWATE assistance

The Electromagnetic Spectrum



Examples

eren.



As if of conjugated pi-bonds increases, h_{arm} increases, representing a smaller HCASC (UAAC energy gap (18)).

GROS

What do pl (x) bonds have to do with absorption of light ?

MARK!

- · Muleoutes with pi bonds will have filled at priviate flower energy); and empty at orbitals. higher energy) separated by an energy pay off.
- If the molecular is exposed to a photon of arierty if aqual to the energy pap oil. It can absorb the photon and promote an election from the lower energy level to the Military Internity Street

Promoting an electrics with a photon of energy (d)



Electron has been promoted: Story Switz emergy profess. (HOMO) to higher shergy orbital ALCOHOL:

Pi Systems - Conjugated Pi Bonds

The torper the number of adjacent provision, the larger the 'ye system" that san form. A system of N consecutive a orbitals. will contain ht pr motocoular orbitate Section Section

38	HIL	111111
Others	Substance	Peoplitica
Dwin p orbitals:	That is orthogo	(mag orbitals)
Two a orbitals	Four is orbitally	Six is orbitally
the first is required.	an West in Appelliants	the first in application

The larger the pl explant, the smaller the AE gap will be behaven the highest accounted molecular orbital (HOMO): and the toward unoccupied molecular arbital d.UMOs.

This translates into a longer equation(th for it may (i.e. towards the visited

Company offices (180 year on futurities) (217 year, Bulledises has a product (CMO+LIM) energy (sp., which means a less artemptic S.a. tonger-extended photon is required to promote an assiston:

Absorption of C+O Bonds



- Molecules with CoO bonds will also attend UV falls, followers: the observed transition is playtly different.
- For a non-consugated attachyde or tutore the 2-bullanone. The is to it' transplan comus beyond the detection test to 190 year.
- Province a different type of transition, it to an unlarge a is the non-bunding electron pair, is observed with G+O bonds.
- Typical attace/sunce is around 300 nm. Skip 200 km for Educations in

What's meant by "Conjugation" ?

Fix important that the or boroth are adjacent borougated. For example, both replaculars before have two pt bonds, but A set about at a longer wavelength then \$ because it consugation.



6.46

Double bonds are conjugated (military more)

Double bonds WOT consugated The soft hubble basis codesin

ARTERITOR FOR A SERVING PARK no a establish available for conclus with the or probert.

Atlaha Jakoma jari kohe pudra daen contribute to the principles.

Typical Questions

1. What will absorb at longer wavelength?



A in deputition benefits agree consequent in A, but but in B

BI I have more immediately double bonds (b. vs. 2 for A):

Oncorporat, Mindalana, Supramphora F.

parties of translation particular definite store. The sheet copyright 2016, James A. Aubertrant machine garner than being con-

- Since E + b+ we can state this energy E to becoming a

V-18 000 - Since frequency is reliated to wavelength by a + + 1, see 5 to 26 to 1/2. sign relates it to expressing the

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As I of conjugated at bonds increases - decrease (if - increase i..., to longer executingly).

As if of conjugated at bonds decreases -- Increase of in decrease i...... to chorier equality for

Smaller energy pap --- b lower v.; longer is, Large wherea gap --- high v., short it in a witheren absorbe to GV at 180 non-(e.g. lyanpane, absorbs in visible at 410 nm;

$a/c \rightarrow bunds$ 444 **MICHIGAN**

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man followers or bring the decimal SET AND NAME AND ADDRESS.

the little greekenily Increment on the place of the pt system increases

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Paul A. Bartlett, Judith G. Koch

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