

Badji Mokhtar University Annaba Faculty of Technology –

Department : 2nd Year Sciences and technologies Organic chemistry 2024/2025



Tutorial N°4

Exercise 1:

Show the bonds polarization in the following molecules:

CH₃-CHO, CH₃-CH₂-OH, F-Na, H-CN, F₂, CH₃-CO-CH₃

Exercise 2:

Classify the following groups according to their electronic effects:

-OCH $_3$, -OCOCH $_3$, -NHCOCH $_3$, -NEt $_2$, -NH $_2$, -COCH $_3$, -COOCH $_3$, -NO $_2$, -COCI, -CCI $_3$, -CH $_3$

Exercise 3:

Rearrange the following carbocations in decreasing order of stability:

Exercice 4:

Give the resonance structures of the following molecules: