

Exercise 0.25 – Delocalisation

Q025-01 The delocalisation of electrons is most likely to be significant in:

- A. CO_2
 - B. SO_2
 - C. HCOOH
 - D. TiO_2
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Q025-02 What is the best description of the carbon-oxygen bond lengths in CO_3^{2-} ?

- A. One short and two long bonds
 - B. One long and two short bonds
 - C. Three bonds of the same length
 - D. Three bonds of different lengths
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Q025-03 Compare the carbon-oxygen bond lengths in the HCOO^- ion, giving your reasoning.

Q025-04 Draw a graph representing the hydrogenation of cyclohexene and benzene and use it to explain the concept of delocalisation energy.

Q025-05 Describe the bonding in an ozone, O_3 molecule.
