

Paper 3 (Labs and Biochemistry Optional Unit)

Section A - Data Analysis

Allotropes of Carbon

- Electrons in diamond are immobile due to large band gap and localized in sigma bonds (not delocalized like in graphene)
- Shorter bonds = stronger = more E to break

3D Models of Organic Molecules

- Ethane and ethene models = diff bond angles + molecular geometries + double vs single C-C bond (bond length differs)
- Advantage of using computer generated molecular model over ball and stick 3D model = easier to modify, better visualization of possible bond rotations, can show bond angles more accurately
- Benzene = bonds with ring structure have resonance + contains delocalized e- in ring

UV-vis spectroscopy

- Initial reaction produces $\text{NO}_2(\text{g})$, which is a respiratory irritant, so the reaction should be carried out under a fume hood
- Be careful when reading graph! \rightarrow needed to add 0.005 to 0.0025 to get 0.0075

Diluting a solution

- Need a volumetric flask and a volumetric pipette
- If diluting solution 1.000mol/dm^3 to 0.0100mol/dm^3 solution, that means diluting 100 times (use calculator to figure this out if needed), dilute with water

Titration

- End point is difficult to determine even with addition of starch to turn remaining free I_2 black b/c precipitate (CuI) makes colour change difficult to see + reaction occurs instantaneously (reaction time)

Voltaic cell

- Sketch inversely proportional graph (labelling axes)
- $r = -0.9999$ is a strong negative correlation
- Current flows in the solution with ions moving across the electrolyte (anions to the anode, cations to the cathode)

Neutralization reaction

- Antacids react with HCl in stomach to relieve indigestion (change pH)
- MgCl_2 is (aq) b/c the other product is water
- Controls: volume of HCl , $[\text{HCl}]$, temperature of HCl , mass of Antacid tablets, SA of tablets
- Uncertainty in change in pH \rightarrow add the absolute uncertainties (b/c subtracting)
- Reduced validity of conclusion: actual environment in stomach is different, mass of antacid wasn't controlled, uncertainty of ± 0.04 means A and C cannot be distinguished (look at error

Ib Sl Chemistry Past Paper 3

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