Spect. Deter. Of [Mn] in unknown sample & Calculation of E Introduction: What is: Mn? ?3 $Mn_{\lambda max}$? Experiment's objective? How to: Convert colorless Mn compound to colored compound? Maintain colored Mn compound? Convert concentration unit from ppm to Molar and vice versa? Mn: Manganese atomic atomic weight 54.938 25 number acid-base properties \bigcirc of higher-valence oxides symbol crystal structure electron configuration [Ar]3d54s2 physical state at 20 °C (68 °F) name manganese Transition metals Solid Cubic Strongly acidic Controls sugar levels Prevents osteoporosis Maintains thyroid health Improves metabolism & digestion Alleviates premenstrual syndrome Remedy for sprains & inflammation Increases mineral density of Monitors the activity of free radicals spinal bone in the body

ε is the molar absorptivity, also known as the extinction coefficient of the sample. It is a unique physical constant of the chemistry of the sample that relates to the sample's ability to absorb light at a given wavelength. Like path length (b) and sample concentration (c), ε is also directly



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Expermental:

1-Prepare 50ml Of [100ppm] (Mn⁷⁺) from (KMnO₄) using tap water.

2-Prepare next (all in 50ml Volumetric flasks):





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Concentration (ppm)

: Unknown Sample

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50

30

إعد تعليق الدراسة النظرية والساية المزا



نصل بي

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