

Colour Chemistry

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The color of chemicals is a physical property of chemicals that in most cases comes from the excitation of electrons due to an absorption of energy performed by the chemical. What is seen by the eye is not the color absorbed, but the complementary color. Colour Chemistry then goes on to look at the structure and synthesis of the various dyes and pigments, along with their applications in the traditional areas of textiles, coatings and plastics, and also the ever-expanding range of "high-tech" applications. CHEMISTRY OF DYES 57 system in Vitamin A to give β -carotene causes a significant bathochromic shift, i.e. to a darker colour. Fig. 5. Importance of having a chromophore within a conjugated system Orange N N CH₃ N NCH₃ Colourless In addition to influencing solubility, auxochromes are essential ring substituents in providing target colours.

The wonderful red colour vermilion offers a revealing glimpse of this intersection between art and early chemistry (listen to our vermilion podcast). It is mercury sulfide, which was used in its mineral form as a pigment at least since Roman times.

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