

Product Available

July 10, 2002

WATER SOLUBLE THIOPHENE POLYMER

Sodium Poly[2-(3-thienyl)ethoxy-4-butylsulfonate]

Water-soluble thiophene polymers have received much attention in the past ten years because of their potential applications in bio-sensors, chemical sensors, and opto-electronic devices. American Dye Source, Inc. is now offering a new water soluble thiophene polymer, sodium poly[2-(3-thienyl)ethoxy-4-butylsulfonate] (Catalogue No. **ADS2000P**) for such applications. This polymer exhibits orange colour in basic solutions and dark green in acidic solutions (see Figure 1). The UV-Vis and fluorescent spectra of the polymer in aqueous solutions are shown in Figures 2 and 3, respectively. For more information, please contact us at the below address.

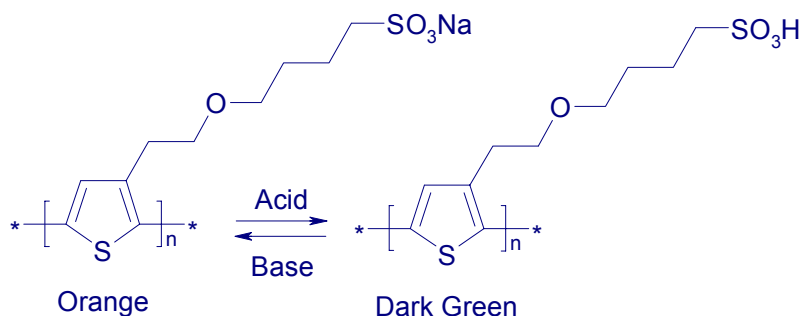


Figure 1. Photos of ADS2000P in basic and acidic solutions

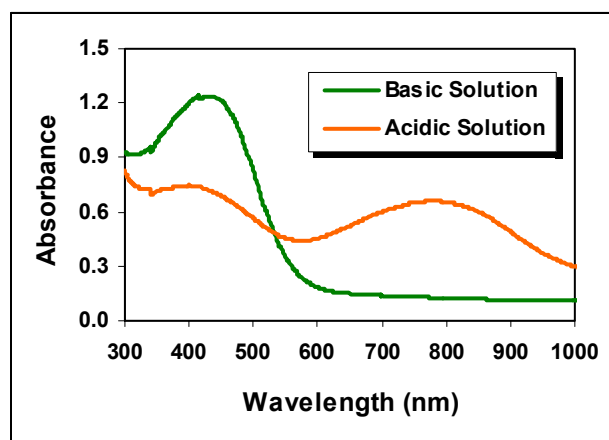


Figure 2. UV-Vis spectra of ADS2000P in basic and acidic aqueous solutions.

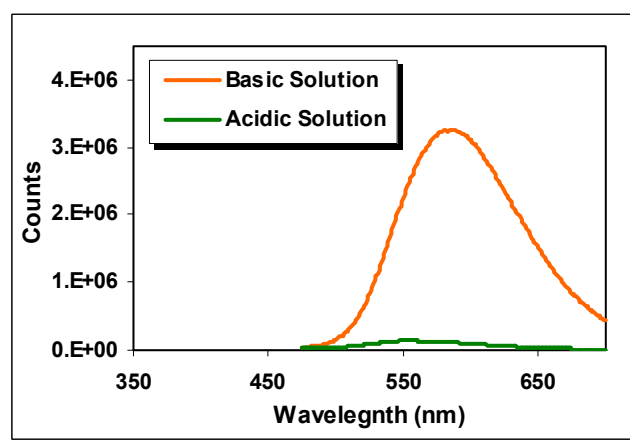


Figure 3. Fluorescent spectra of ADS2000P in basic and acidic aqueous solutions.

Specifications:

- Catalogue No. **ADS2000P**
- Appearance: Brown powder
- Molecular weight: 100K – 1000K (GPC vs. PS.)
- Absorption Max.: 435 nm (Basic solutions)
773 nm (Acidic solutions)
- Fluorescent Max.: 587 nm (Basic solutions)

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