



## CONJUGATED POLYMER FOR ORGANIC SOLAR CELLS AND SENSORS

### ADS406PT

#### INTRODUCTION

Thiophene polymers have attracted a lot of research attention in the past 10 years due to their potential applications in electronics and sensing devices. American Dye Source, Inc. is now offering from gram to kilogram quantity low metal content **regioregular** and **regiorandom** thiophene polymers and copolymers in solid forms or in solutions.

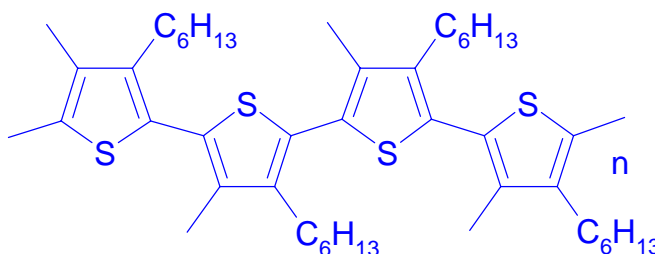
#### DESCRIPTION

**ADS406PT** is a regioregular Poly(3-methyl-4-hexylthiophene-2,5-diyl). This polymer is highly soluble in toluene, chlorobenzene, and tetrahydrofuran. **ADS406PT** can be used for fabrication of organic solar cells, sensors and other electronic devices.

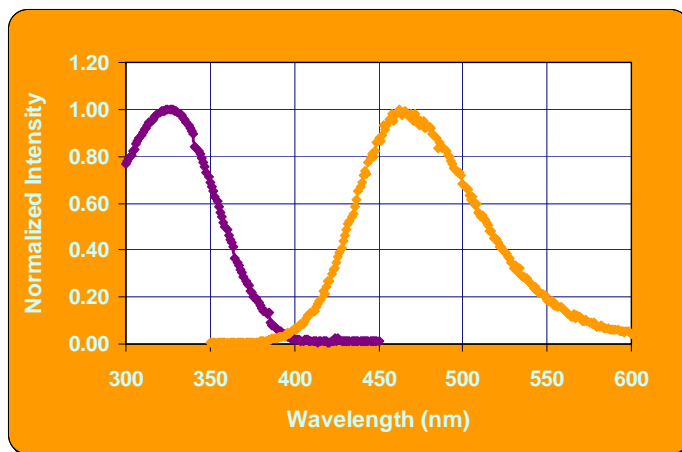
#### TECHNICAL DATA

- ❑ Appearance: Yellow solution
- ❑ Molecular weight: 30,000 – 80,000
- ❑ Metal Content: < 75 ppm
- ❑ Absorption maximum: 326 nm
- ❑ Photoluminescent maximum: 462 nm
- ❑ Storage: under Nitrogen atmosphere

#### STRUCTURE



#### SPECTRA



Absorption and emission spectra of ADS406PT in THF solution

#### CONTACT INFORMATION

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