



CONJUGATED POLYMER FOR ORGANIC SOLAR CELLS AND SENSORS

ADS518PT

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.

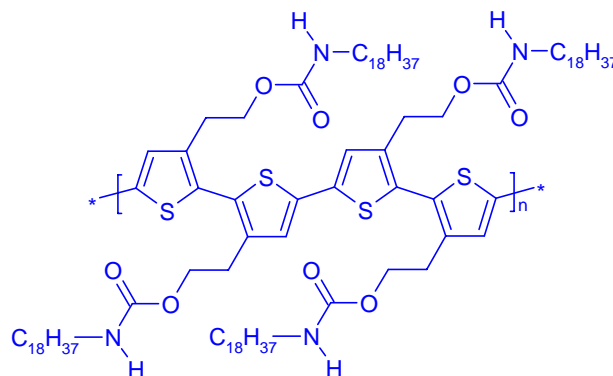
DESCRIPTION

ADS518PT is poly[3-(2-ethyl-isocyanato-octadecanyl)-thiophene]. This polymer is highly soluble in toluene and tetrahydrofuran. **ADS518PT** can be used for fabrication of organic solar cells, sensors and other electronic devices.

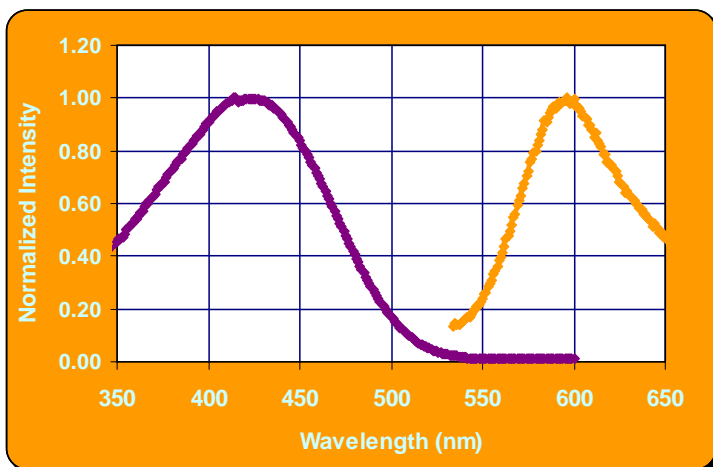
TECHNICAL DATA

- ❑ Appearance: Red powder
- ❑ Molecular weights: 100,000 – 300,000
- ❑ Metal content: < 20 ppm
- ❑ Absorption maximum: 420 nm
- ❑ Photoluminescent maximum: 596 nm
- ❑ Storage: under Argon atmosphere

STRUCTURE



SPECTRA



Absorption and emission spectra of ADS518PT in THF solution

CONTACT INFORMATION

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