

## FLUORENE OLIGOMERS FOR ELECTRONIC APPLICATIONS

### ADS256FS

#### INTRODUCTION

American Dye Source, Inc. offers from gram to kilogram quantity conjugated oligomers and polymers, which are derived from benzothiazole, carbazole fluorene, phenylene, phenylene-vinylene and thiophene. We supply these products in solid forms or in solutions.

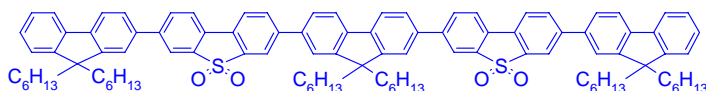
#### DESCRIPTION

ADS256FS is 2,7-Bis[7-(9,9-di-n-hexylfluorene-2-yl)dibenzothiophene-S,S-dioxide-3-yl]-9,9-di-n-hexylfluorene. This oligomer is highly soluble in toluene, tetrahydrofuran, and other solvents. ADS256FS exhibits intensive blue photoluminescence and electroluminescence. This product can be used for fabrication of light emitting displays, organic solar cells, organic thin film transistor and biosensors.

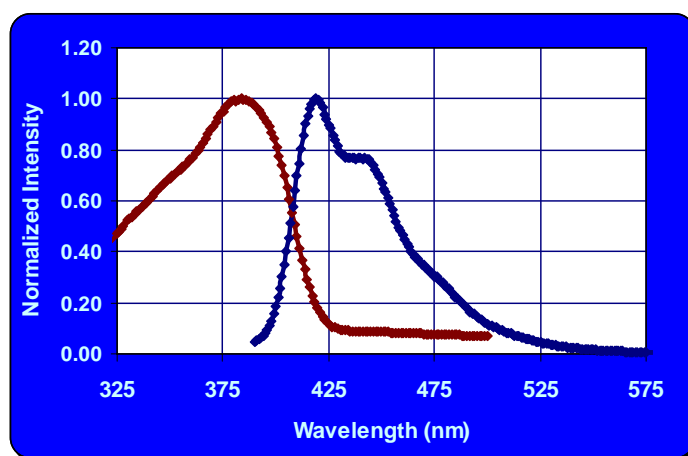
#### TECHNICAL DATA

- Appearance: Light yellow powder
- Purity: > 98.0% (HPLC)
- Molecular weight: 1428.06 g mol<sup>-1</sup>
- Chemical formula: C<sub>99</sub> H<sub>110</sub> O<sub>4</sub> S<sub>2</sub>
- HOMO: -5.61 eV, LUMO: -2.14 eV
- Absorption maximum: 384 nm
- Photoluminescent maximum: 419 nm
- Storage: Under Argon atmosphere

#### STRUCTURE



#### SPECTRA



Absorption and emission spectra of ADS256FS in THF solution.

#### CONTACT INFORMATION

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