

FLUORENE OLIGOMERS FOR ELECTRONIC APPLICATIONS

ADS156FS

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.

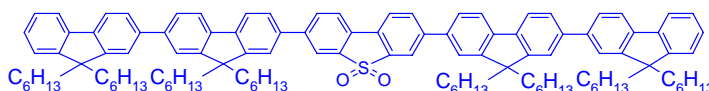
DESCRIPTION

ADS156FS is 3,7-Bis[7-(9,9-di-n-hexylfluoren-2-yl)]-9,9-di-n-hexylfluoren-2-yl] dibenzothiophene-S,S-dioxide. This oligomer is highly soluble in toluene, tetrahydrofuran, and other solvents. ADS156FS 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.

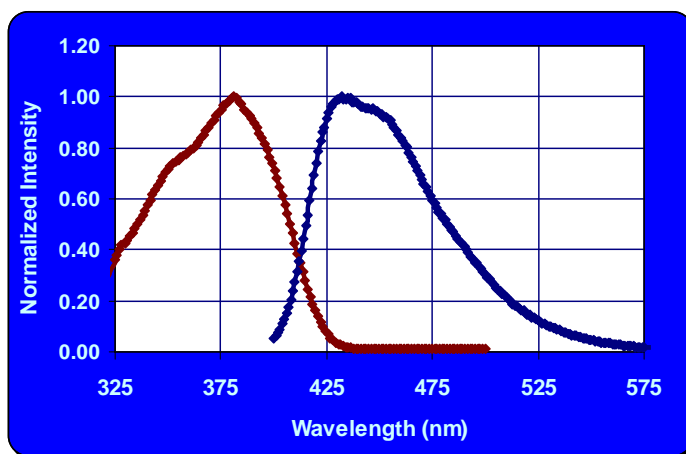
TECHNICAL DATA

- Appearance: Light yellow powder
- Purity: > 98.0% (HPLC)
- Molecular weight: 1546.34 g mol⁻¹
- Chemical formula: C₁₁₂ H₁₃₆ O₂ S
- HOMO: -5.35 eV, LUMO: -2.01 eV
- Absorption maximum: 382 nm
- Photoluminescent maximum: 432 nm
- Storage: Under Argon atmosphere

STRUCTURE



SPECTRA



Absorption and emission spectra of ADS156FS in THF solution.

CONTACT INFORMATION

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