

## FLUORENE OLIGOMERS FOR ELECTRONIC APPLICATIONS

### ADS056FO

#### 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.

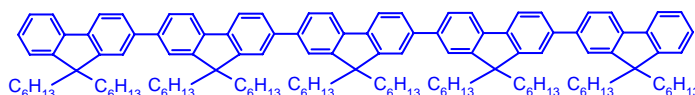
#### DESCRIPTION

ADS056FO is 9,9,9',9',9'',9''',9''',9''''',9''''',9''''''-decakis(hexyl)-2,7';2',7'', 2'',7''';2''',7''''-pentafluorene. This pentamer is highly soluble in toluene, chlorobenzene, tetrahydrofuran, and chloroform. ADS056FO 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.

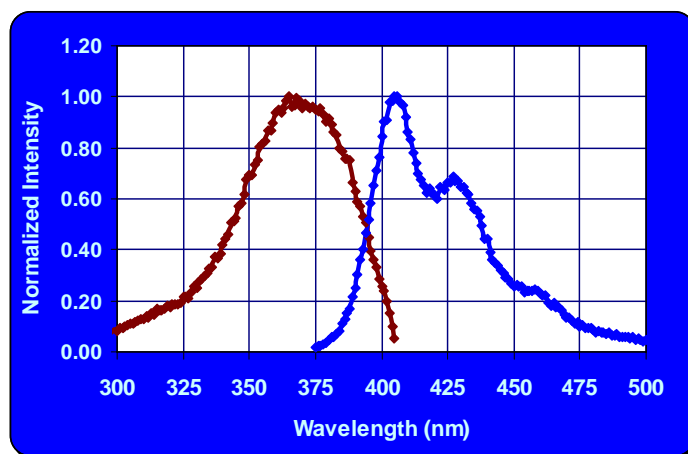
#### TECHNICAL DATA

- Appearance: light yellow powder
- Purity: 98.0%
- Molecular weight: 1664.62 g mol<sup>-1</sup>
- Chemical formula: C<sub>125</sub>H<sub>162</sub>
- Melting point: 142 – 150 °C
- Absorption maximum: 365 nm
- Photoluminescent maximum: 405 nm
- Shelf life: 12 months

#### STRUCTURE



#### SPECTRA



Absorption and emission spectra of ADS056FO film in THF solution.

#### CONTACT INFORMATION

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