

## FLUORENE OLIGOMER FOR ELECTRONIC APPLICATIONS

### ADS038FO

#### 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.

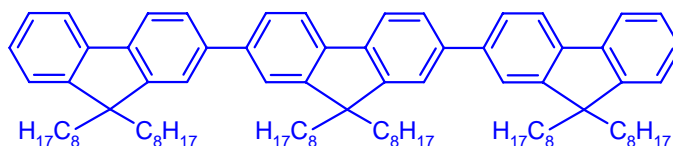
#### DESCRIPTION

**ADS038FO** is 9,9,9',9',9'',9''-hexakis(octyl)-2,7,2',7''-trifluorene. This trimer is highly soluble in toluene, chlorobenzene, tetrahydrofuran, and chloroform. ADS038FO 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.

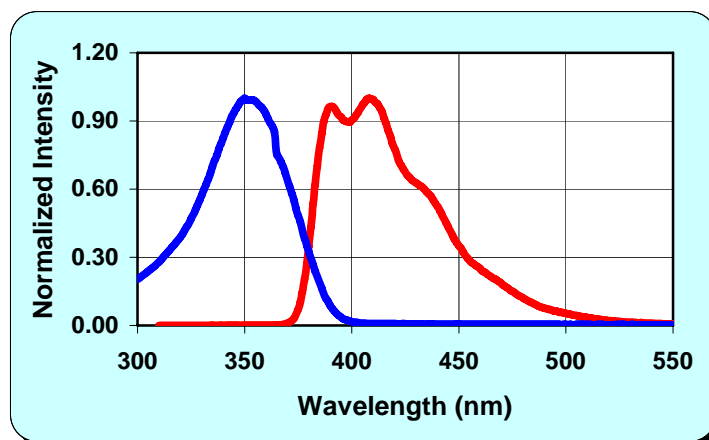
#### TECHNICAL DATA

- ❑ Appearance: light yellow powder
- ❑ Purity: 99 %
- ❑ Formula weight: 1167.94
- ❑ Chemical formula:  $C_{87}H_{122}$
- ❑ Melting point: 61 – 63 °C
- ❑ Absorption maximum: 355 nm
- ❑ Photoluminescent maximum: 411 nm
- ❑ Packing under Argon
- ❑ Shelf life: 12 months after shipment

#### STRUCTURE



#### SPECTRA



Absorption and *emission* spectra of ADS038FO in TFH solution.

#### CONTACT INFORMATION

##### American Dye Source, Inc.

555 Morgan Boulevard  
 Baie d'Urfe, Quebec, Canada H9X 3T6  
 Tel. 514 457-0070  
 Fax 514 457-0071  
 Website: [www.adsdyes.com](http://www.adsdyes.com)  
 E-mail: [info@adsdyes.com](mailto:info@adsdyes.com)

#### DISCLAIMER

The information in this bulletin is believed to be accurate, but all recommendations are made without warranty since the conditions of use are beyond the control of American Dye Source, Inc. The listed properties are illustrative only, and not product specifications. American Dye Source, Inc. disclaims any liability in connection with the use of the information, and does not warrant against infringement by reason of the use of its products in combination with other material or in any process.