# PRODUCT BULLETIN

Revised October 2006

## *FLUORENE OLIGOMERS FOR ELECTRONIC APPLICATIONS*

# ADS076FO

### 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.*

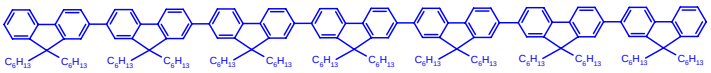
### DESCRIPTION

*ADS076FO is 9,9,9',9',9'',9'',9''',9''',9'''',9'''', 9''''', 9''''', 9''''', 9'''''-dodecakis(hexyl)-2,7';2',7'', 2'',7''';2''',7'''', 2'''',7''''', 2''''',7'''''-heptafluorene. This heptamer is highly soluble in toluene and tetrahydrofuran. ADS076FO exhibits intensive blue photoluminescence and electro-luminescence. This product can be used for fabrication of light emitting displays, organic solar cells, organic thin film transistor and biosensors.*

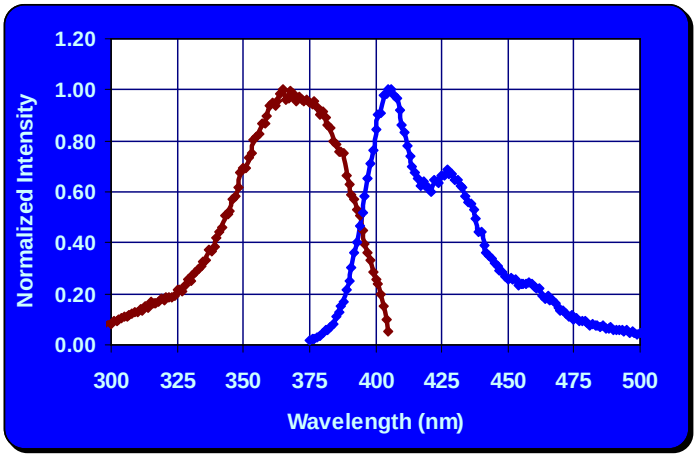
### TECHNICAL DATA

- *Appearance: Light yellow powder*
- *Purity: > 99.0%*
- *Molecular weight: 2327.77 g mol$^{-1}$*
- *Chemical formula: $C_{175}$ $H_{226}$*
- *Decomposition Temperature: > 250 $^{O}C$*
- *Absorption maximum: 365 nm*
- *Photoluminescent maximum: 405 nm*
- *Storage: Under Argon atmosphere*

### STRUCTURE



### SPECTRA




*Absorption and emission spectra of ADS076FO film in THF solution.*

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