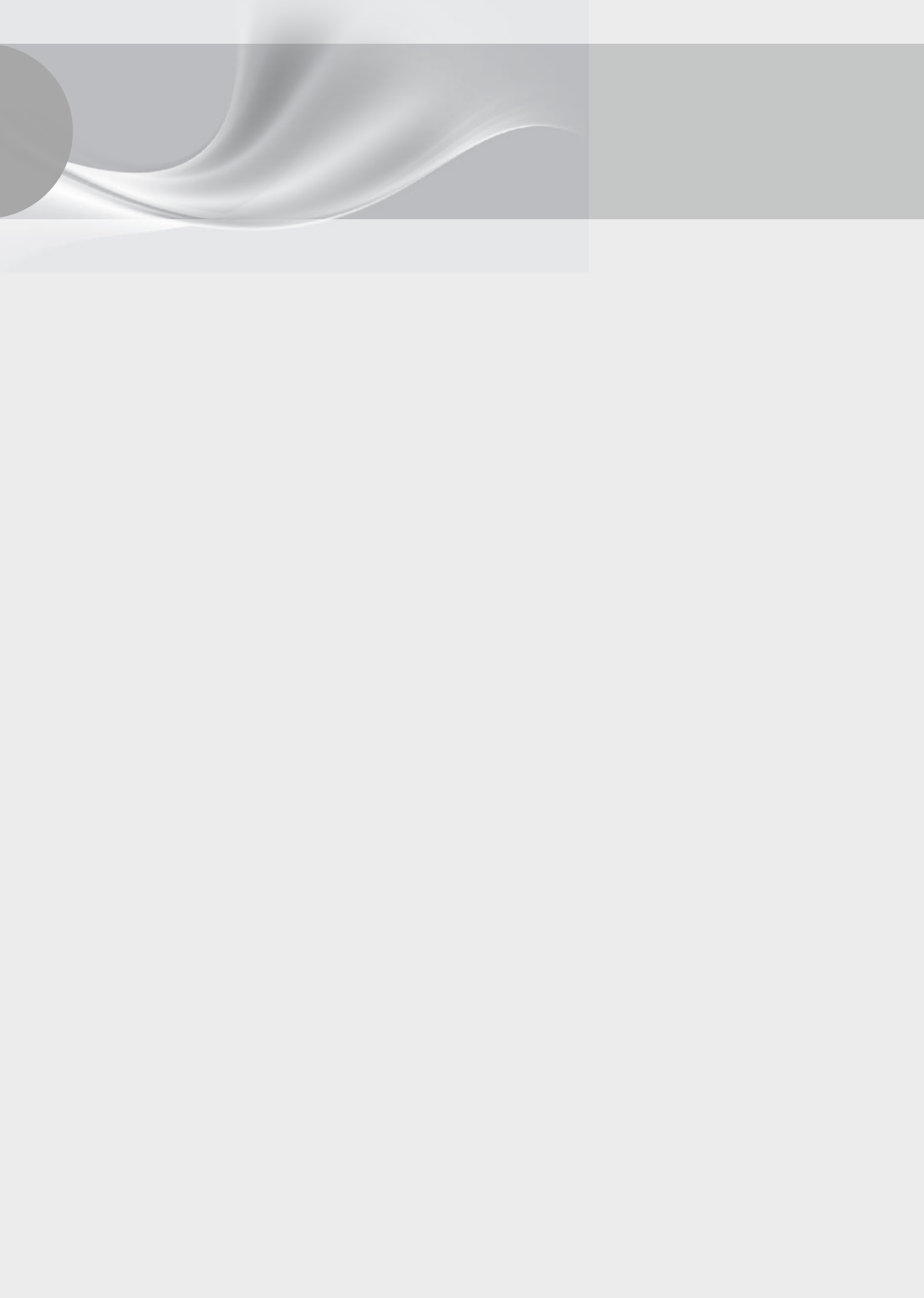
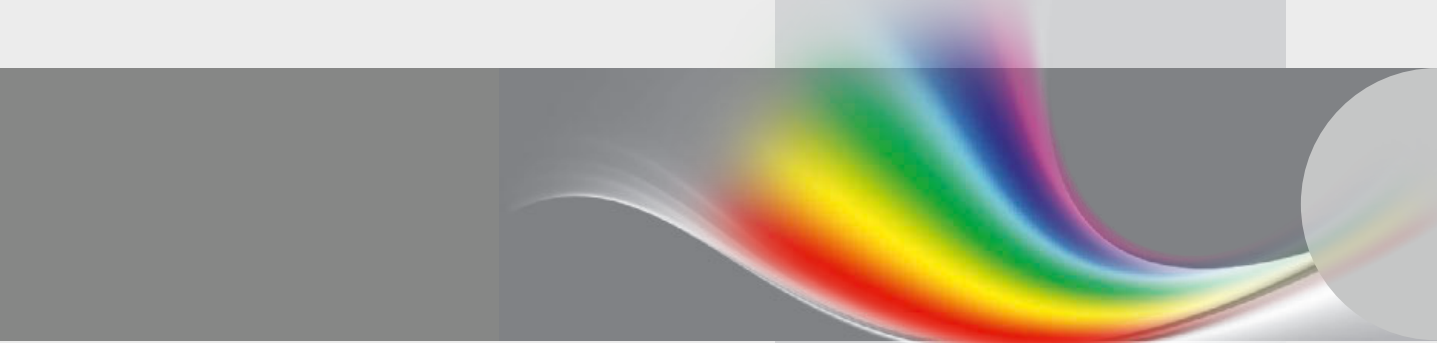


FEW FUNCTIONAL DYES

**DYES FOR LASER IMAGING
NEAR-INFRARED ABSORBERS
SENSITIZERS FOR PHOTOPOLYMERIZATION**





FEW FUNCTIONAL DYES

Contents

Solvent Soluble Cyanine Dyes

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Water Soluble Cyanine Dyes

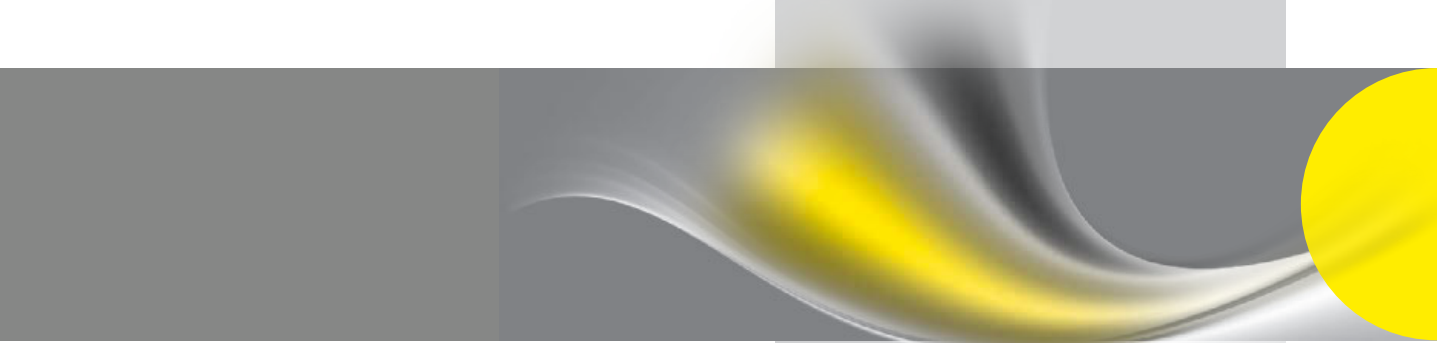
63

Miscellaneous Dyes

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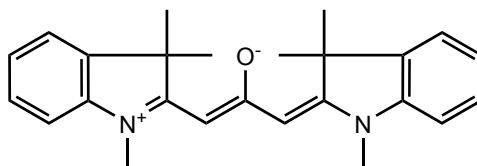
Solvent Soluble Cyanine Dyes

Absorption maximum	Total formula	Molecular weight	CAS #
410 nm (MeOH)	$C_{25}H_{28}N_2O$	372.51 g mol ⁻¹	

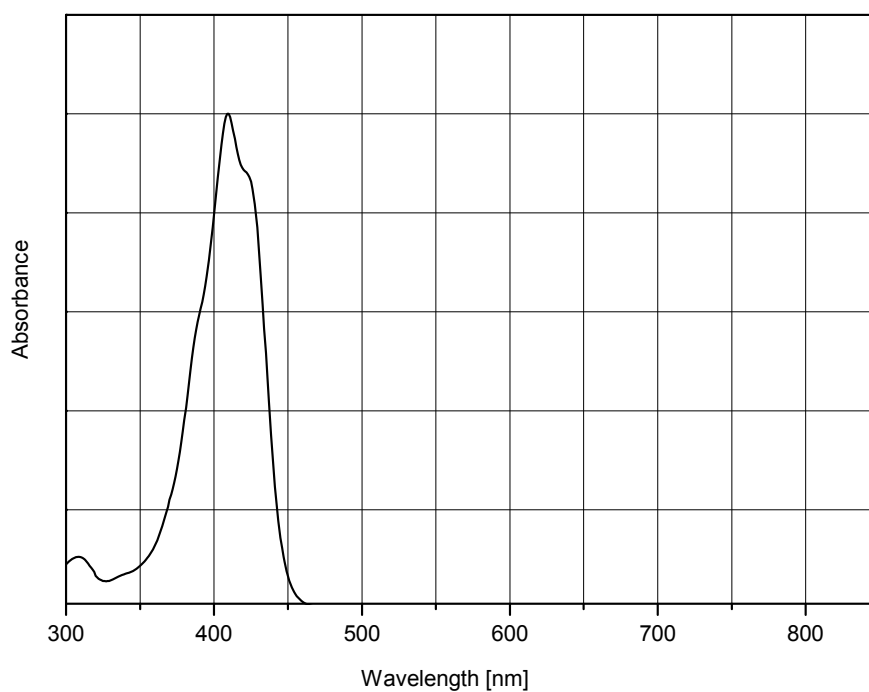
Name

1-(1,3,3-Trimethyl-3H-indolium-2-yl)-3-(1,3,3-trimethylindolin-2-ylidene)prop-1-en-2-olate

Structure



Spectrum

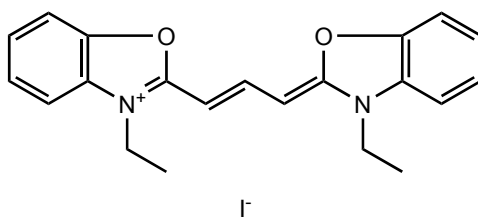


Absorption maximum	Total formula	Molecular weight	CAS #
483 nm (MeOH)	C ₂₁ H ₂₁ IN ₂ O ₂	460.32 g mol ⁻¹	905-96-4

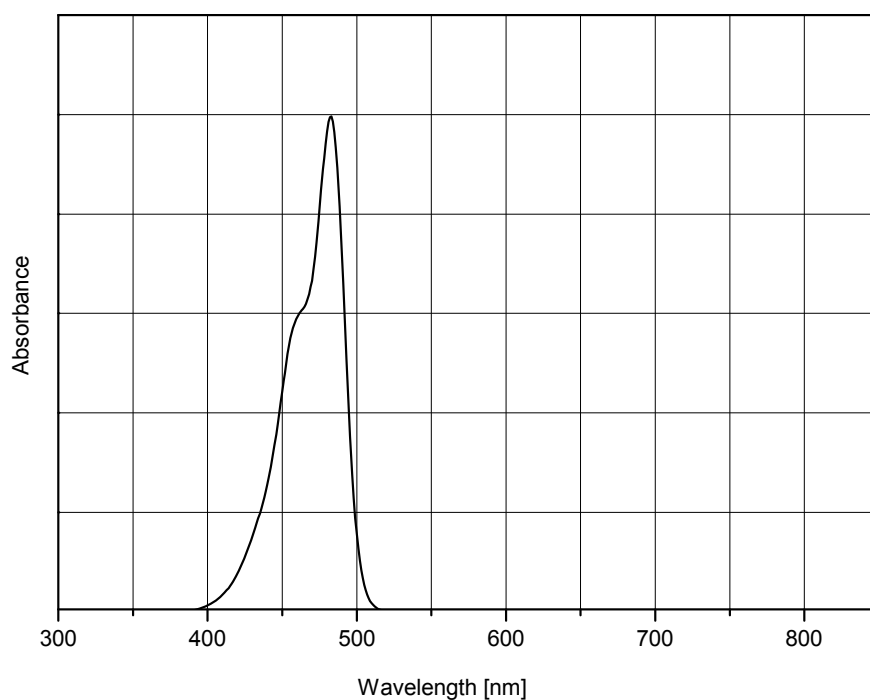
Name

3-Ethyl-2-[3-(3-ethyl-3H-benzoxazol-2-ylidene)-propenyl]-benzoxazolium iodide

Structure



Spectrum

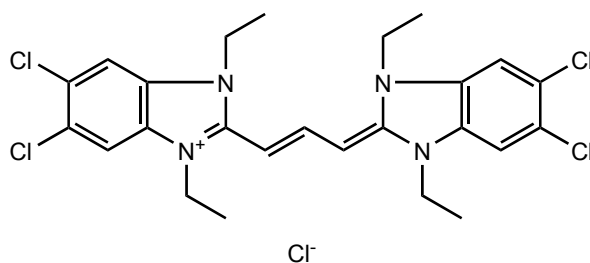


Absorption maximum	Total formula	Molecular weight	CAS #
515 nm (MeOH)	C ₂₅ H ₂₇ Cl ₅ N ₄	560.78 g mol ⁻¹	34444-93-4

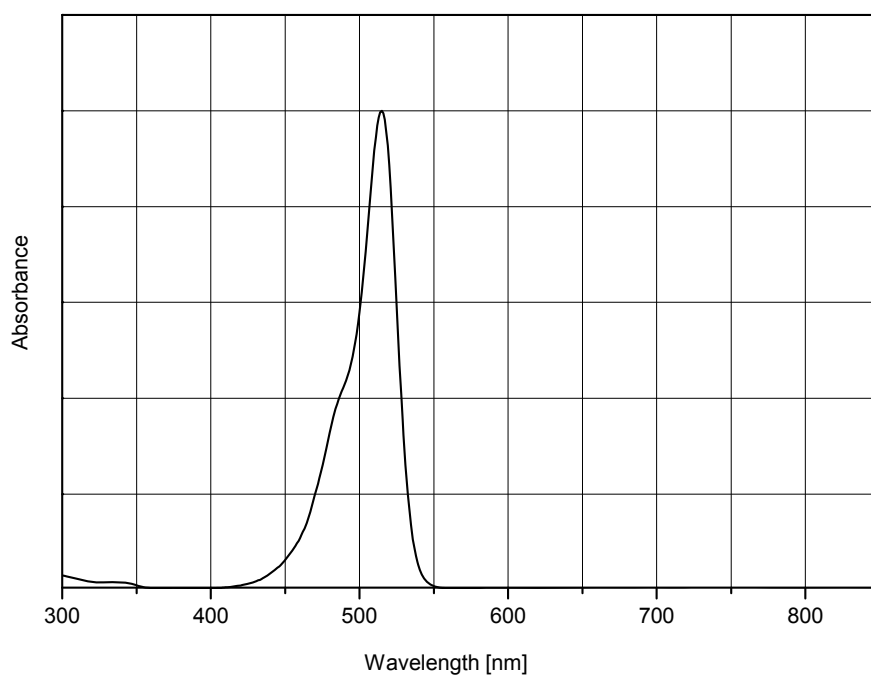
Name

5,6-Dichloro-2-[3-(5,6-dichloro-1,3-diethyl-1,3-dihydro-benzimidazol-2-ylidene)-propenyl]-1,3-diethyl-3H-benzimidazolium chloride

Structure



Spectrum

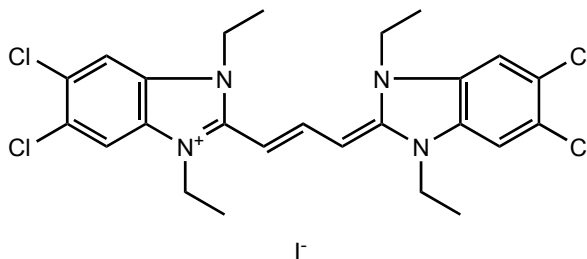


Absorption maximum	Total formula	Molecular weight	CAS #
515 nm (MeOH)	C ₂₅ H ₂₇ Cl ₄ IN ₄	652.23 g mol ⁻¹	3520-43-2

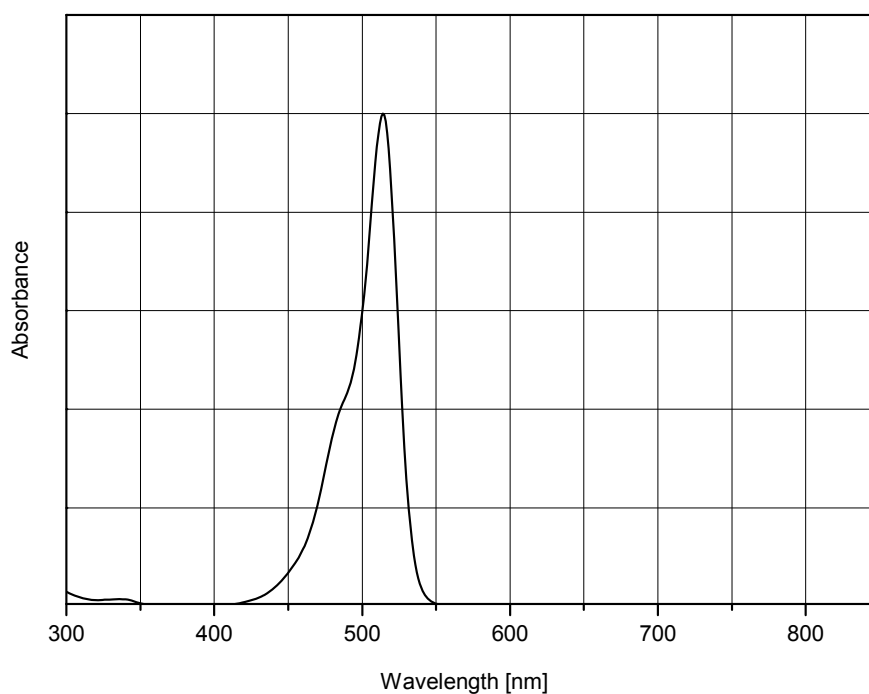
Name

5,6-Dichloro-2-[3-(5,6-dichloro-1,3-diethyl-1,3-dihydro-benzimidazol-2-ylidene)-propenyl]-1,3-diethyl-3H-benzimidazolium iodide

Structure



Spectrum

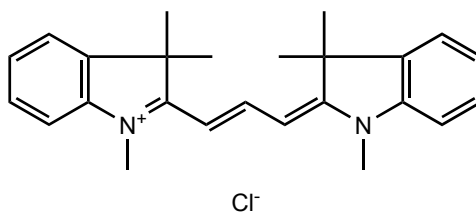


Absorption maximum	Total formula	Molecular weight	CAS #
544 nm (MeOH)	C ₂₅ H ₂₉ ClN ₂	392.97 g mol ⁻¹	6320-14-5

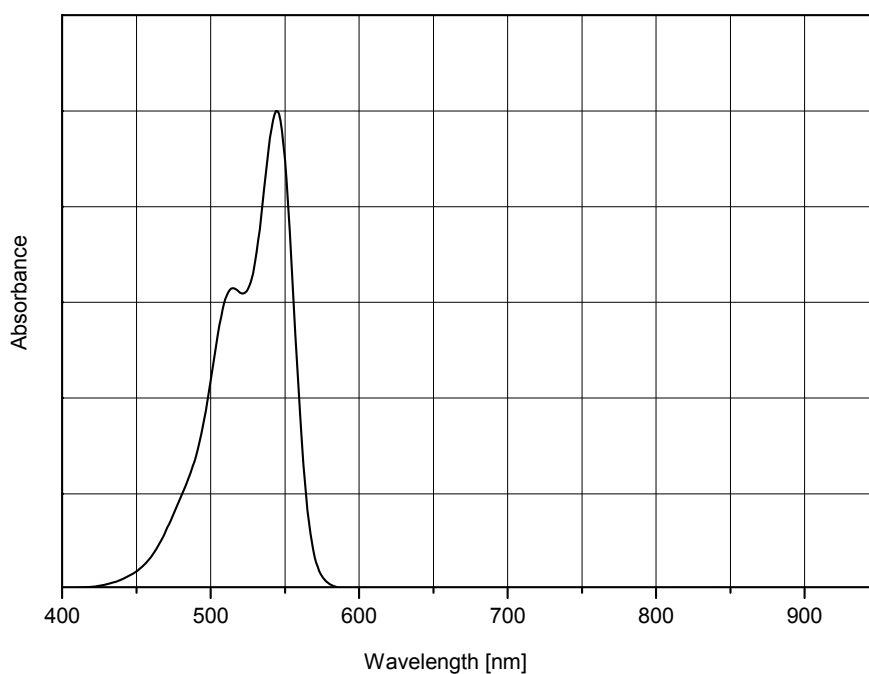
Name

2-[3-(1,3-Dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)propenyl]-1,3,3-trimethyl-3H-indolium chloride

Structure



Spectrum

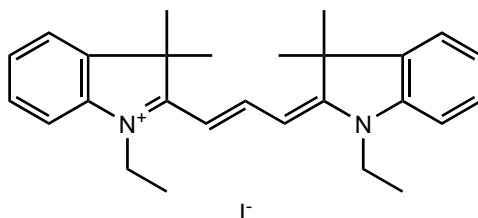


Absorption maximum	Total formula	Molecular weight	CAS #
546 nm (MeOH)	$C_{27}H_{33}IN_2$	512.48 g mol ⁻¹	14696-39-0

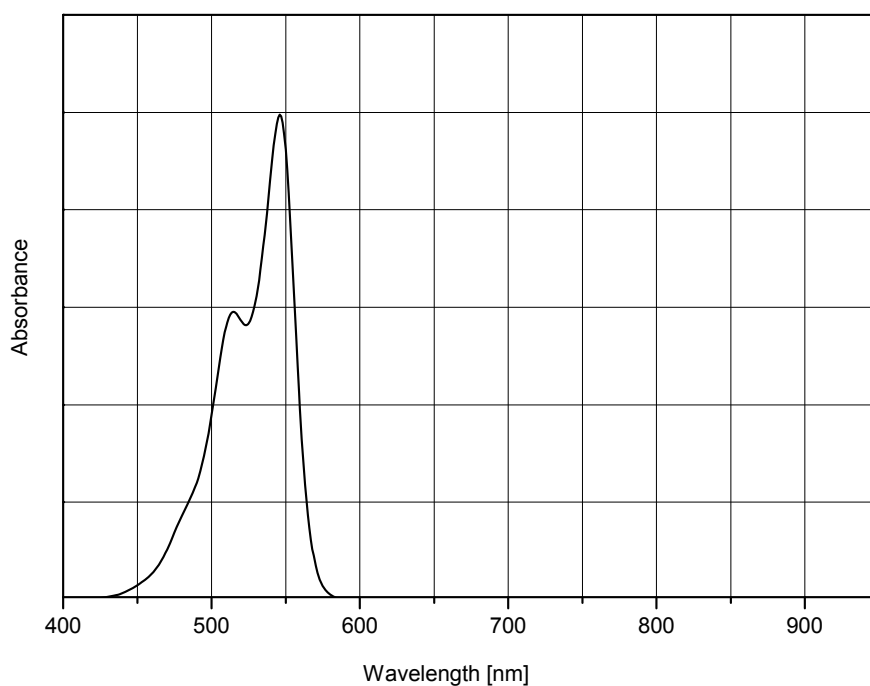
Name

1-Ethyl-2-[3-(1-ethyl-3,3-dimethyl-1,3-dihydro-indol-2-ylidene)-propenyl]-3,3-dimethyl-3H-indolium iodide

Structure



Spectrum

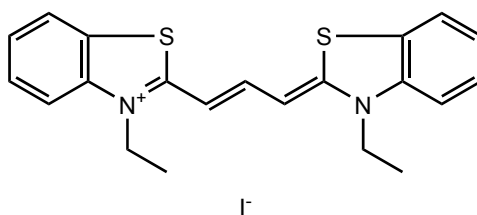


Absorption maximum	Total formula	Molecular weight	CAS #
556 nm (MeOH)	C ₂₁ H ₂₁ IN ₂ S ₂	492.44 g mol ⁻¹	905-97-5

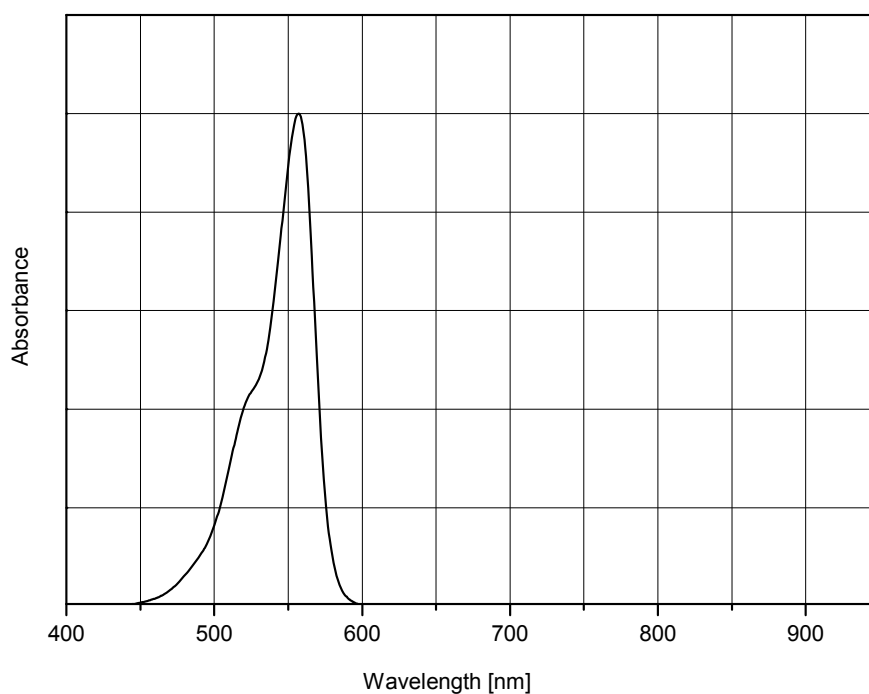
Name

3-Ethyl-2-[3-(3-ethyl-3H-benzothiazol-2-ylidene)propenyl]-benzothiazolium iodide

Structure



Spectrum

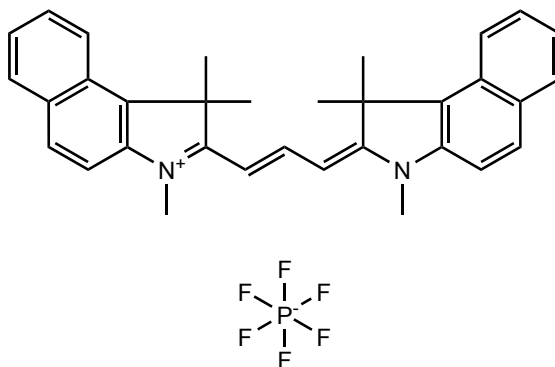


Absorption maximum	Total formula	Molecular weight	CAS #
583 nm (MeOH)	$C_{33}H_{33}F_6N_2P$	602.60 g mol ⁻¹	599177-24-9

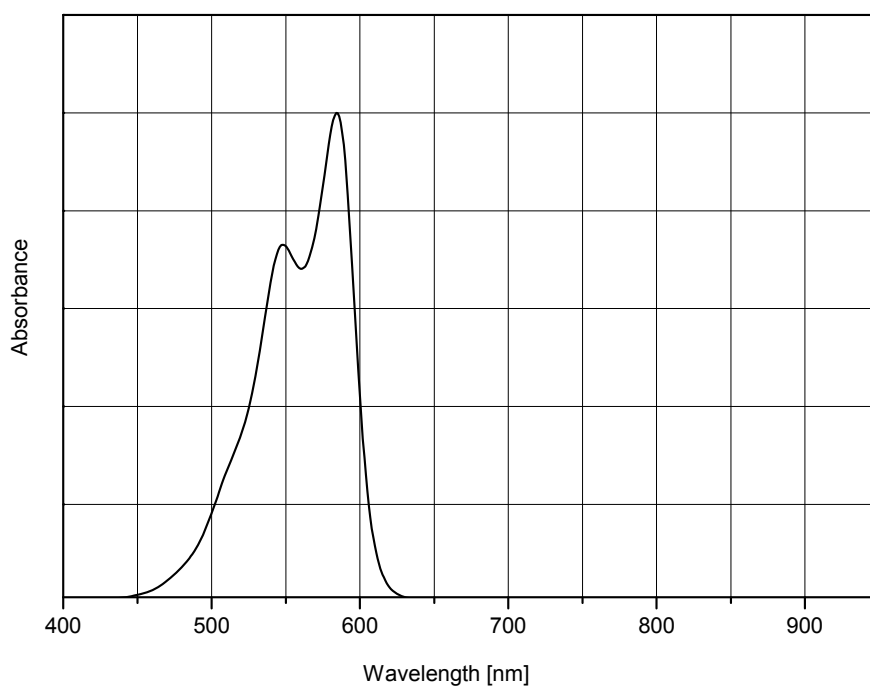
Name

2-[3-(1,3-Dihydro-1,1,3-trimethyl-2H-benzo[e]indol-2-ylidene)-propenyl]-1,1,3-trimethyl-1H-benzo[e]indolium hexafluorophosphate

Structure



Spectrum

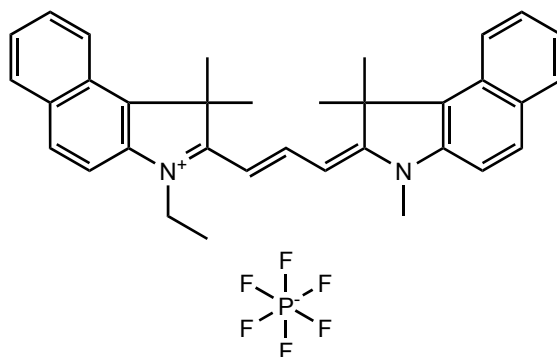


Absorption maximum	Total formula	Molecular weight	CAS #
585 nm (MeOH)	C ₃₄ H ₃₅ F ₆ N ₂ P	616.63 g mol ⁻¹	

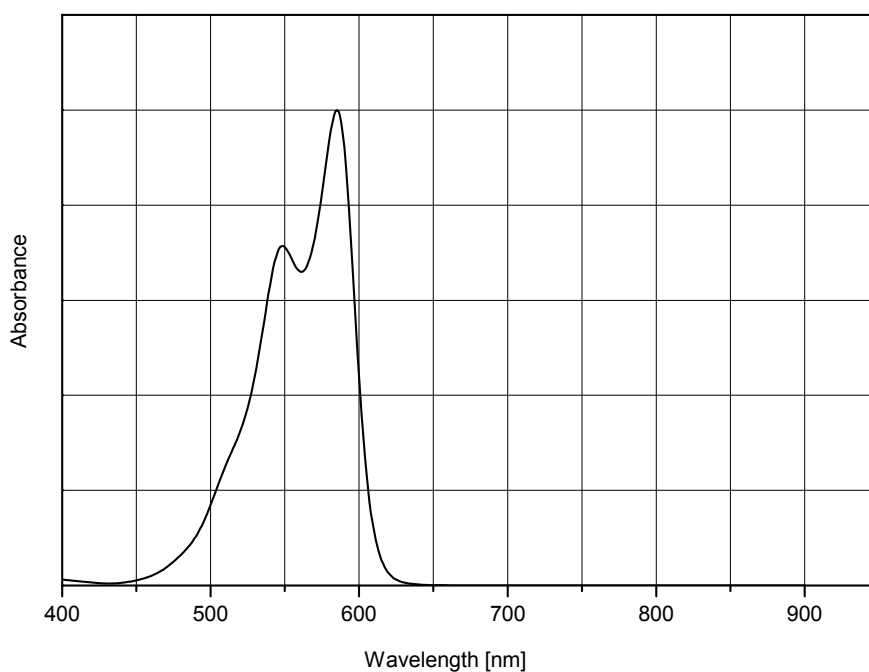
Name

3-Ethyl-1,1-dimethyl-2-[3-(1,1,3-trimethyl-1,3-dihydro-benzo[e]indol-2-ylidene)-propenyl]-1H-benzo[e]indolium hexafluorophosphate

Structure



Spectrum

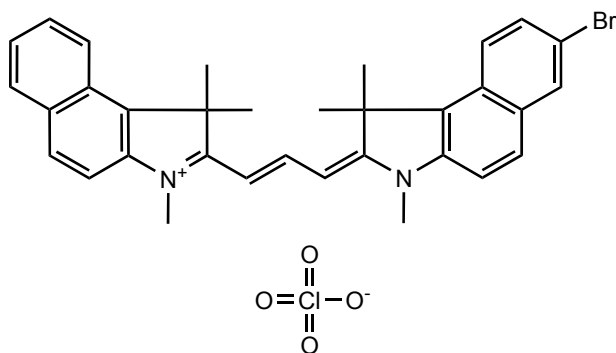


Absorption maximum	Total formula	Molecular weight	CAS #
585 nm (MeOH)	C ₃₃ H ₃₂ BrClN ₂ O ₄	635.99 g mol ⁻¹	726185-88-2

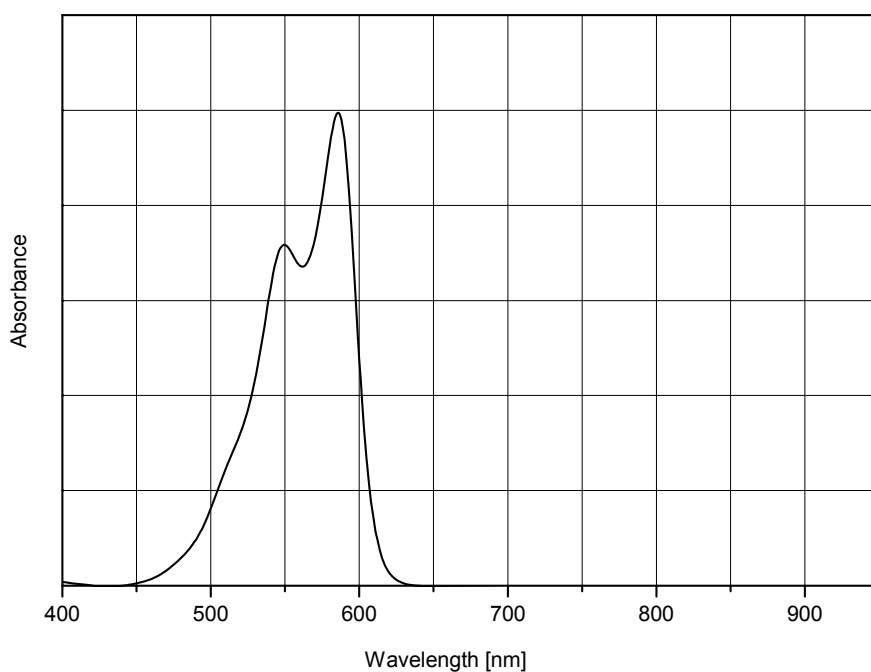
Name

2-[3-(7-Bromo-1,1,3-trimethyl-1,3-dihydro-benzo[e]indol-2-ylidene)-propenyl]-1,1,3-trimethyl-1H-benzo[e]indolium perchlorate

Structure



Spectrum

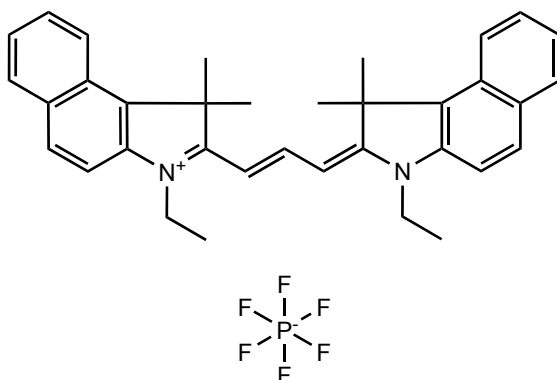


Absorption maximum	Total formula	Molecular weight	CAS #
586 nm (MeOH)	C ₃₅ H ₃₇ F ₆ N ₂ P	630.66 g mol ⁻¹	769933-13-3

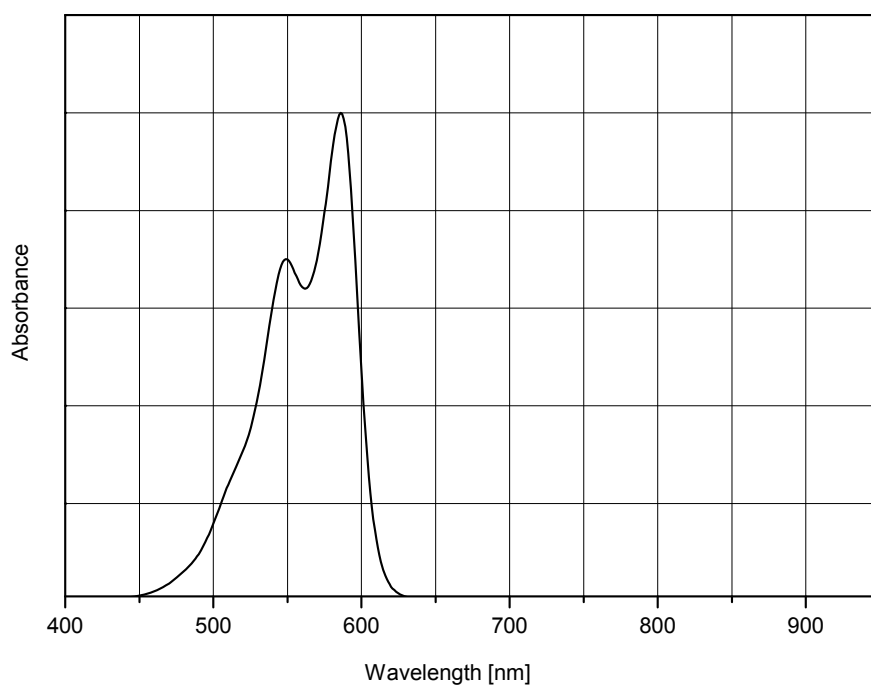
Name

3-Ethyl-2-[3-(3-ethyl-1,1-dimethyl-1,3-dihydro-benzo[e]indol-2-ylidene)-propenyl]-1,1-dimethyl-1H-benzo[e]indolium hexafluorophosphate

Structure



Spectrum

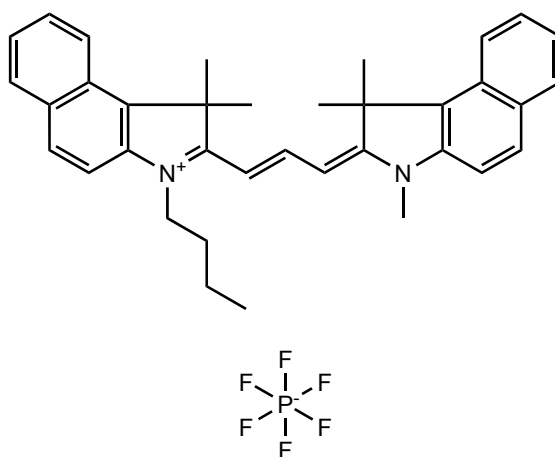


Absorption maximum	Total formula	Molecular weight	CAS #
586 nm (MeOH)	C ₃₆ H ₃₉ F ₆ N ₂ P	644.68 g mol ⁻¹	356062-62-9

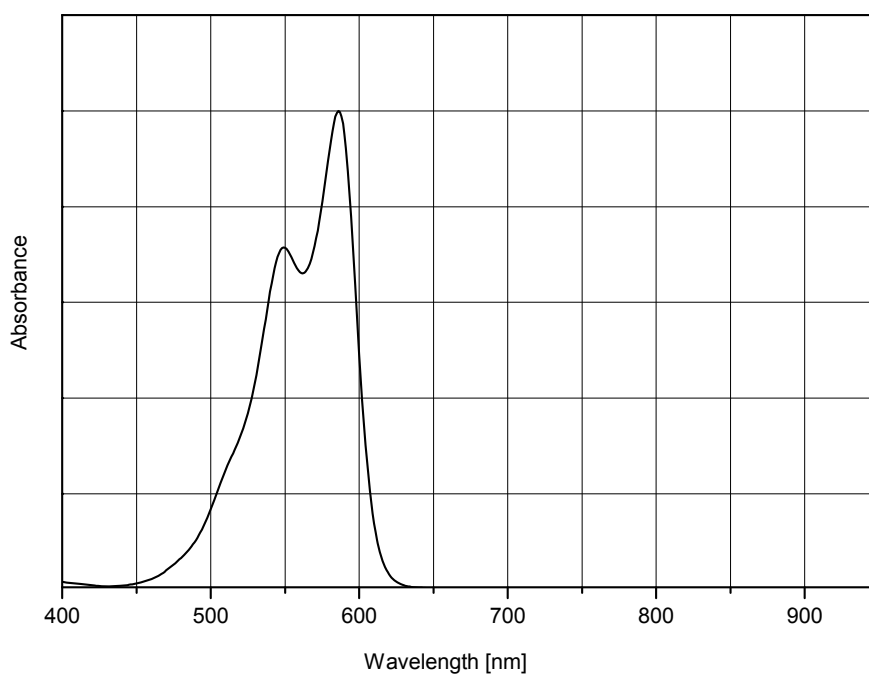
Name

3-Butyl-1,1-dimethyl-2-[3-(1,1,3-trimethyl-1,3-dihydro-benzo[e]indol-2-ylidene)-propenyl]-1H-benzo[e]indolium hexafluorophosphate

Structure



Spectrum

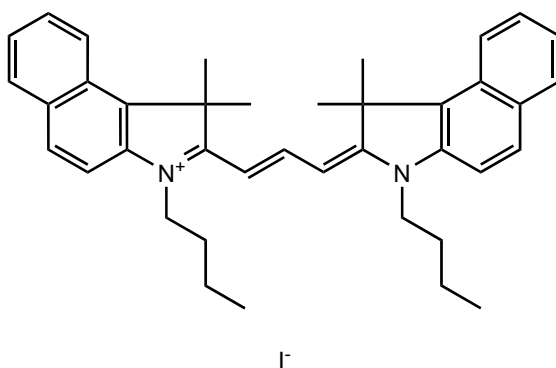


Absorption maximum	Total formula	Molecular weight	CAS #
587 nm (MeOH)	C ₃₉ H ₄₅ IN ₂	668.70 g mol ⁻¹	886046-46-4

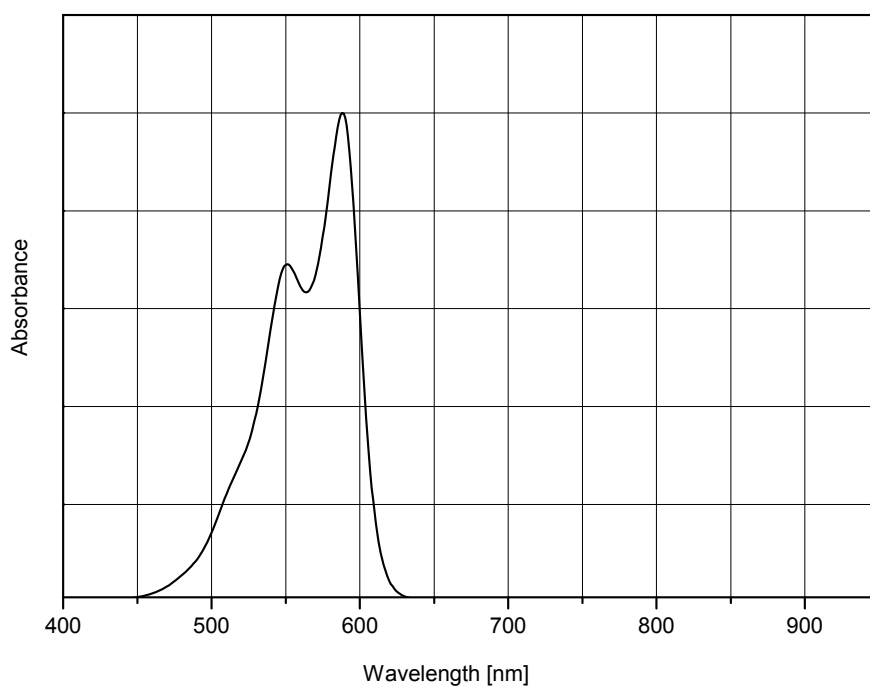
Name

3-Butyl-2-[3-(3-butyl-1,3-dihydro-1,1-dimethyl-2H-benzo[e]indol-2-ylidene)-propenyl]-1,1-dimethyl-1H-benzo[e]indolium iodide

Structure



Spectrum

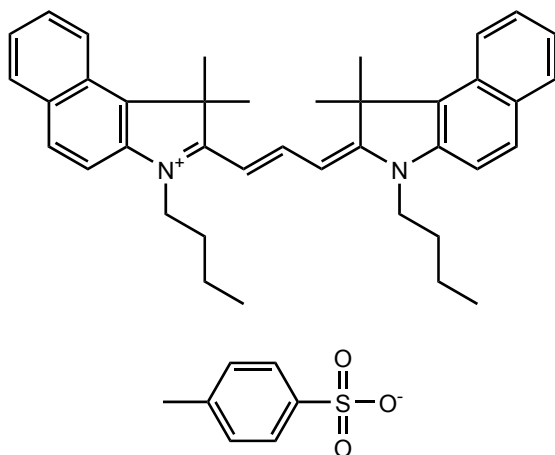


Absorption maximum	Total formula	Molecular weight	CAS #
588 nm (MeOH)	C ₄₆ H ₅₂ N ₂ O ₃ S	712.99 g mol ⁻¹	1643773-67-4

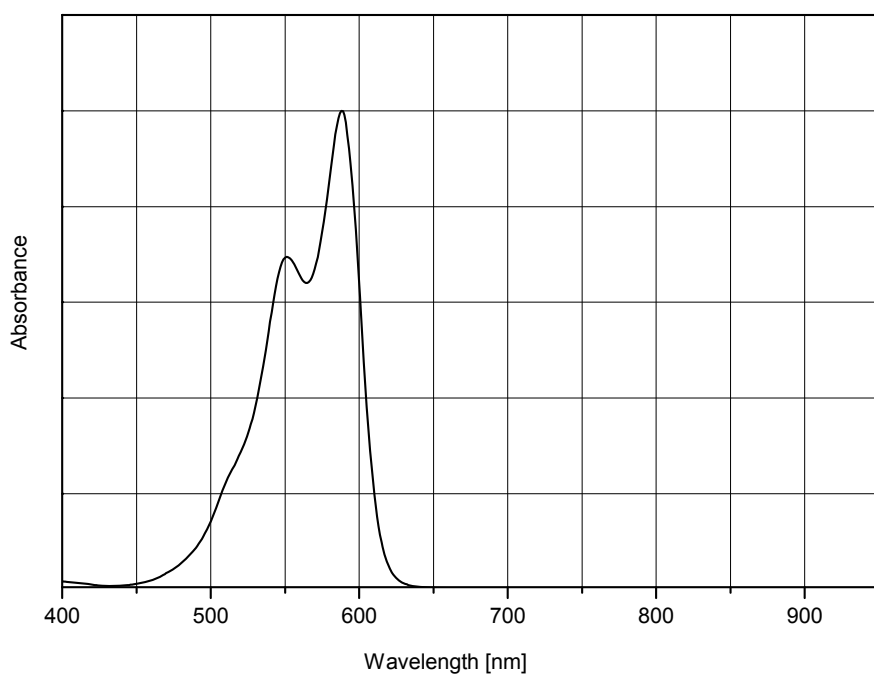
Name

3-Butyl-2-[3-(3-butyl-1,3-dihydro-1,1-dimethyl-2H-benzo[e]indol-2-ylidene)-propenyl]-1,1-dimethyl-1H-benzo[e]indolium 4-methylbenzenesulfonate

Structure



Spectrum

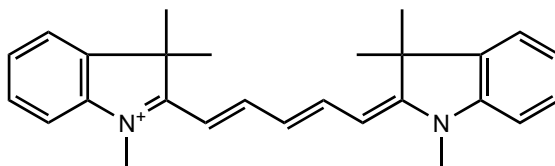


Absorption maximum	Total formula	Molecular weight	CAS #
638 nm (MeOH)	C ₂₇ H ₃₁ ClN ₂	419.01 g mol ⁻¹	54268-70-1

Name

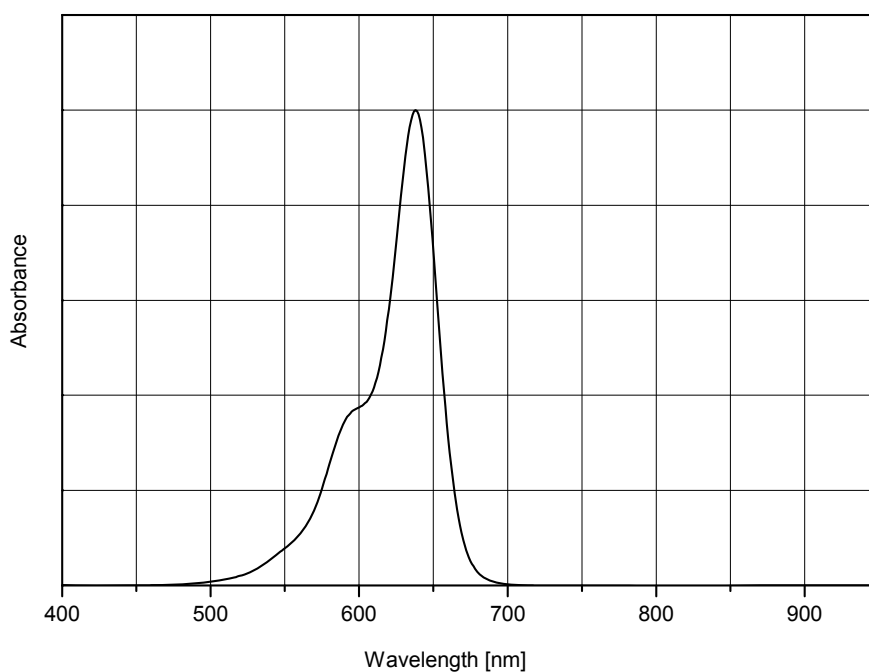
1,3,3-Trimethyl-2-[5-(1,3,3-trimethyl-1,3-dihydro-indol-2-ylidene)-penta-1,3-dienyl]-3H-indolium chloride

Structure



Cl⁻

Spectrum

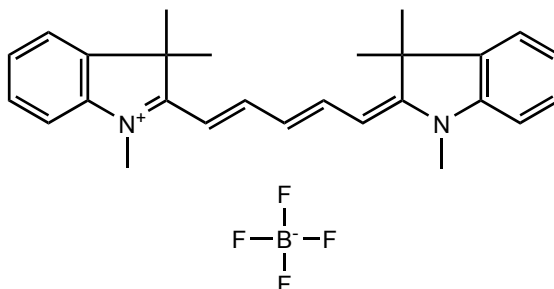


Absorption maximum	Total formula	Molecular weight	CAS #
638 nm (MeOH)	$C_{27}H_{31}BF_4N_2$	470.36 g mol ⁻¹	38575-74-5

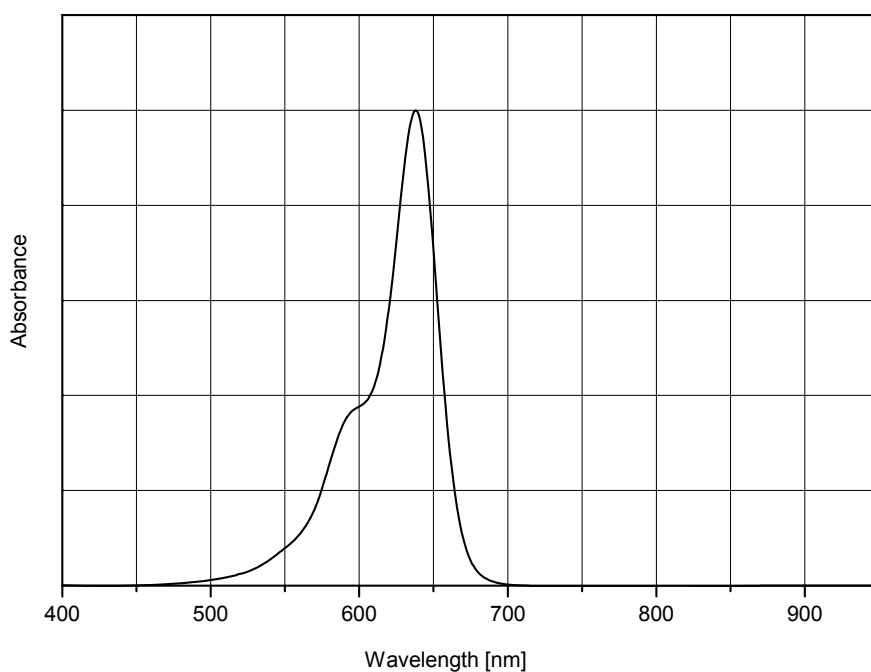
Name

1,3,3-Trimethyl-2-[5-(1,3,3-trimethyl-1,3-dihydro-indol-2-ylidene)-penta-1,3-dienyl]-3H-indolium tetrafluoroborate

Structure



Spectrum

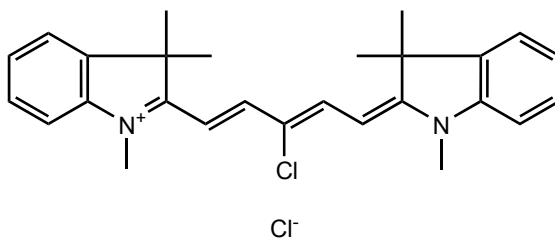


Absorption maximum	Total formula	Molecular weight	CAS #
639 nm (MeOH)	$C_{27}H_{30}Cl_2N_2$	453.45 g mol ⁻¹	

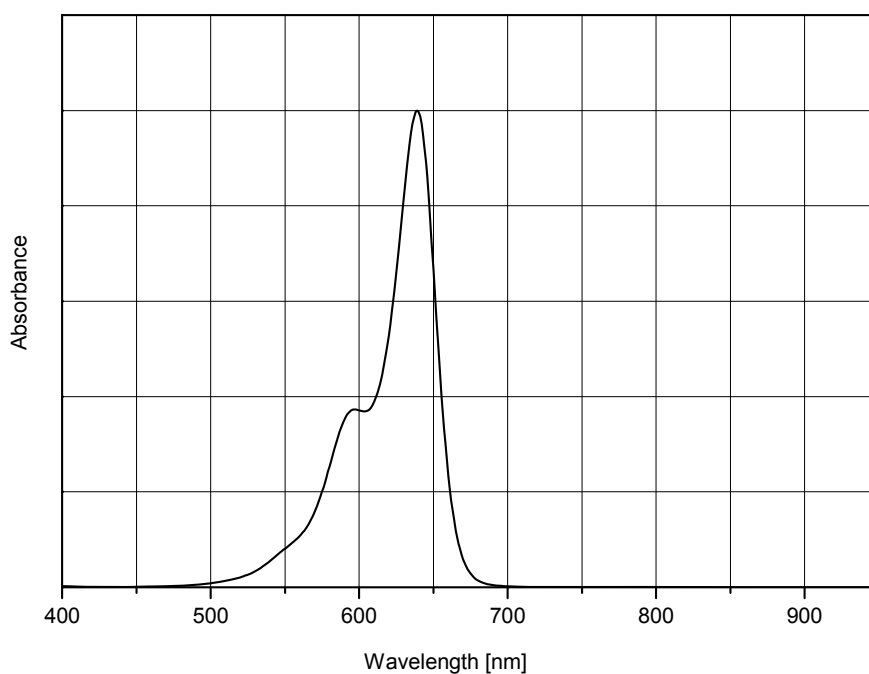
Name

2-[3-Chloro-5-(1,3,3-trimethyl-1,3-dihydro-indol-2-ylidene)-penta-1,3-dienyl]-1,3,3-trimethyl-3H-indolium chloride

Structure



Spectrum

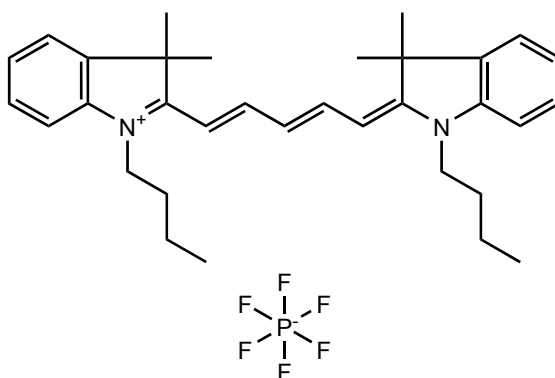


Absorption maximum	Total formula	Molecular weight	CAS #
643 nm (MeOH)	$C_{33}H_{43}F_6N_2P$	612.68 g mol ⁻¹	462093-29-4

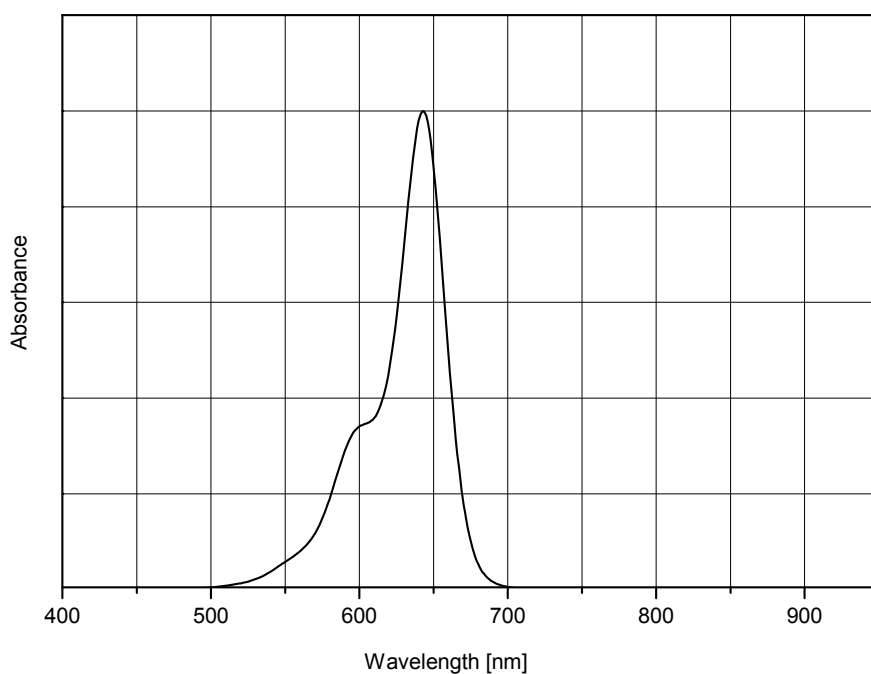
Name

1-Butyl-2-[5-(1-butyl-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene)-penta-1,3-dienyl]-3,3-dimethyl-3H-indolium hexafluorophosphate

Structure



Spectrum

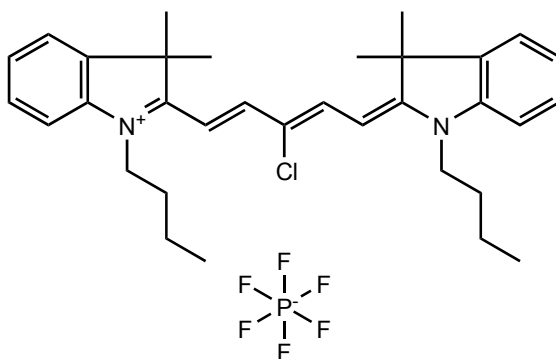


Absorption maximum	Total formula	Molecular weight	CAS #
644 nm (MeOH)	$C_{33}H_{42}ClF_6N_2P$	647.13 g mol ⁻¹	462093-30-7

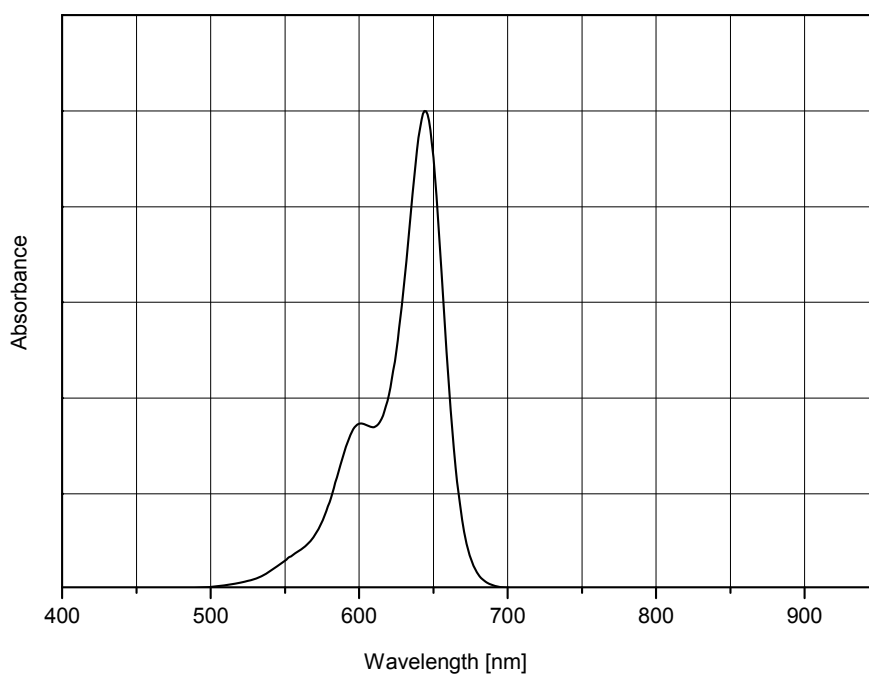
Name

1-Butyl-2-[5-(1-butyl-3,3-dimethyl-1,3-dihydro-indol-2-ylidene)-3-chloro-penta-1,3-dienyl]-3,3-dimethyl-3H-indolium hexafluorophosphate

Structure



Spectrum



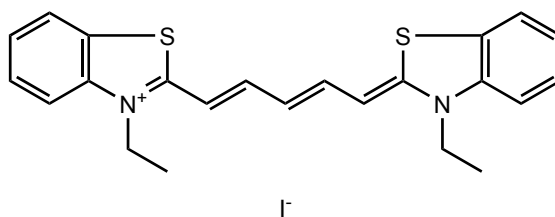
S 0659

Absorption maximum	Total formula	Molecular weight	CAS #
652 nm (MeOH)	$C_{23}H_{23}IN_2S_2$	518.47 g mol ⁻¹	514-73-8

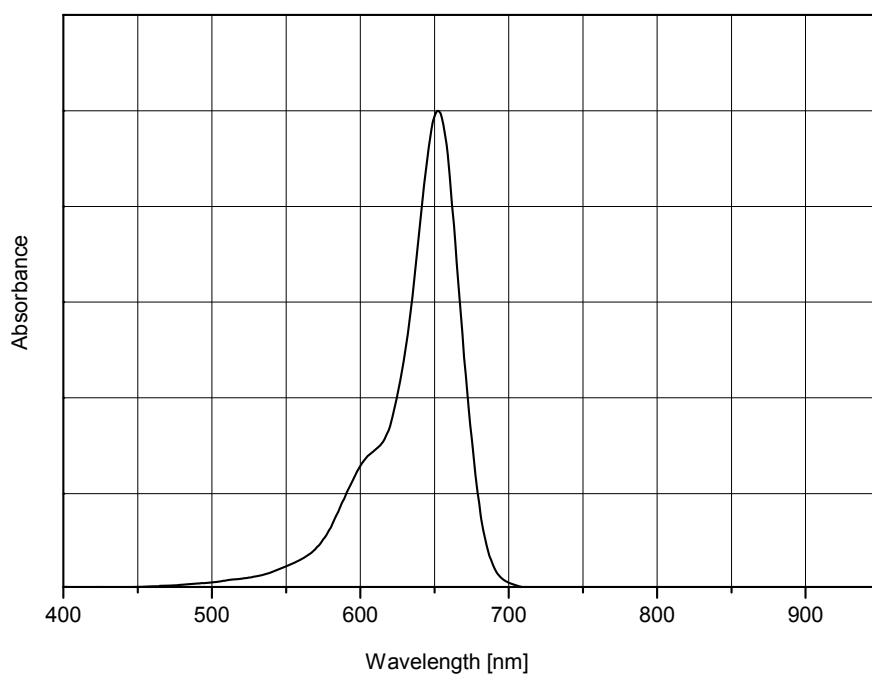
Name

3-Ethyl-2-[5-(3-ethyl-3H-benzothiazol-2-ylidene)-penta-1,3-dienyl]-benzothiazol-3-ium iodide

Structure



Spectrum

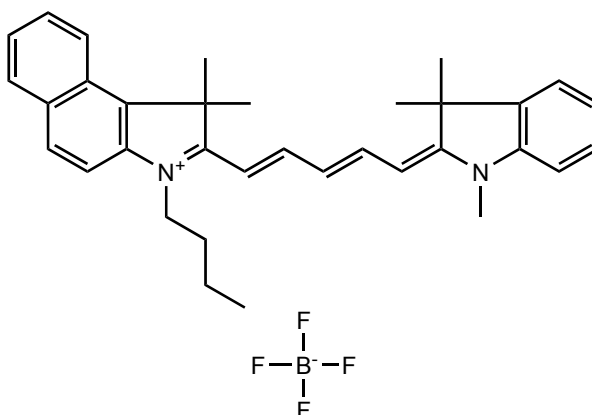


Absorption maximum	Total formula	Molecular weight	CAS #
660 nm (MeOH)	C ₃₄ H ₃₉ BF ₄ N ₂	562.50 g mol ⁻¹	172491-72-4

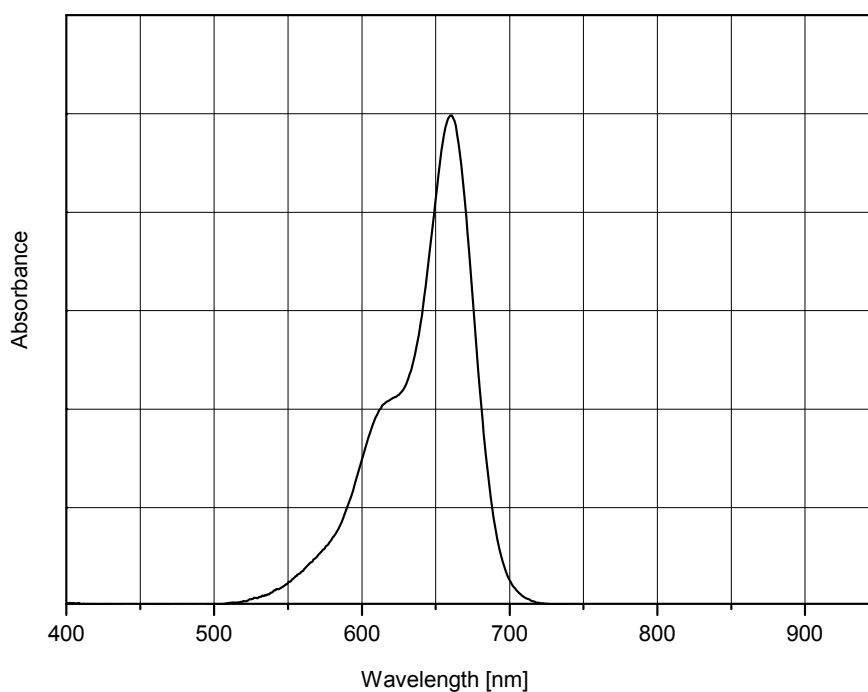
Name

3-Butyl-2-[5-(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)-penta-1,3-dienyl]-1,1-dimethyl-1H-benzo[e]indolium tetrafluoroborate

Structure



Spectrum

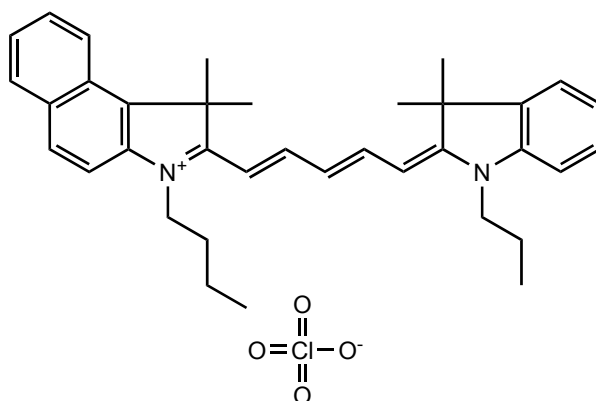


Absorption maximum	Total formula	Molecular weight	CAS #
661 nm (MeOH)	C ₃₆ H ₄₃ ClN ₂ O ₄	603.20 g mol ⁻¹	173894-27-4

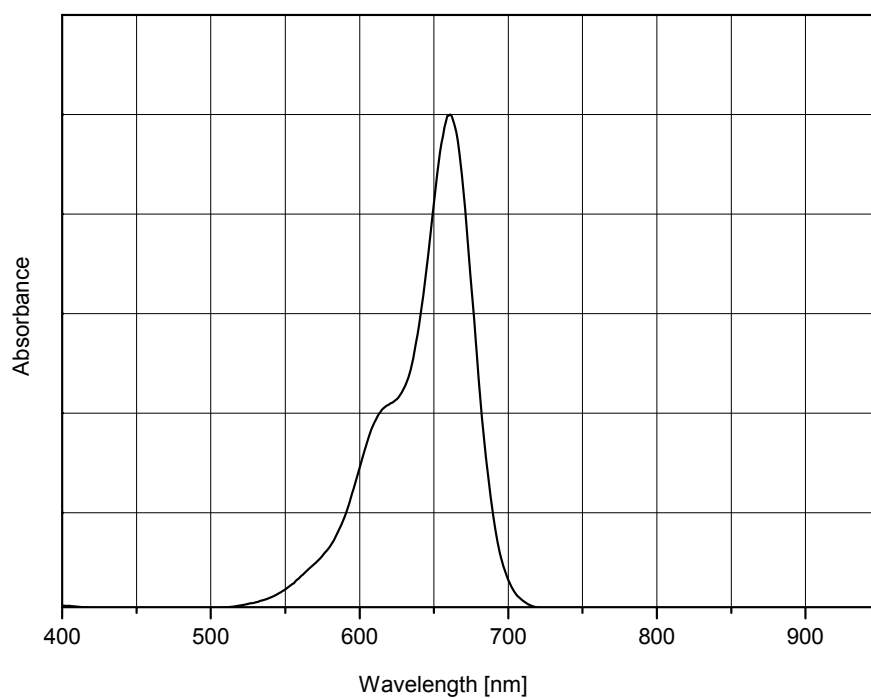
Name

3-Butyl-2-[5-(1,3-dihydro-3,3-dimethyl-1-propyl-2H-indol-2-ylidene)-penta-1,3-dienyl]-1,1-dimethyl-1H-benzo[e]indolium perchlorate

Structure



Spectrum

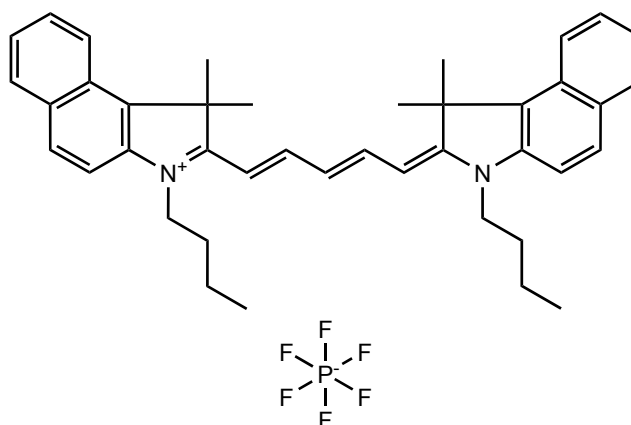


Absorption maximum	Total formula	Molecular weight	CAS #
680 nm (MeOH)	C ₄₁ H ₄₇ F ₆ N ₂ P	712.80 g mol ⁻¹	137147-59-2

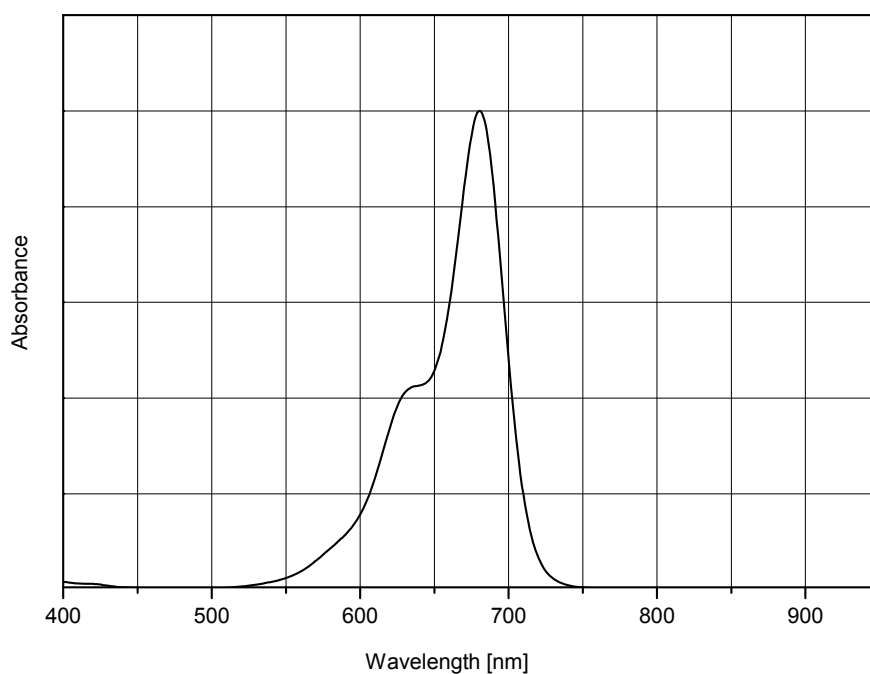
Name

3-Butyl-2-[5-(3-butyl-1,3-dihydro-1,1-dimethyl-2H-benzo[e]indol-2-ylidene)-penta-1,3-dienyl]-1,1-dimethyl-1H-benzo[e]indolium hexafluorophosphate

Structure



Spectrum

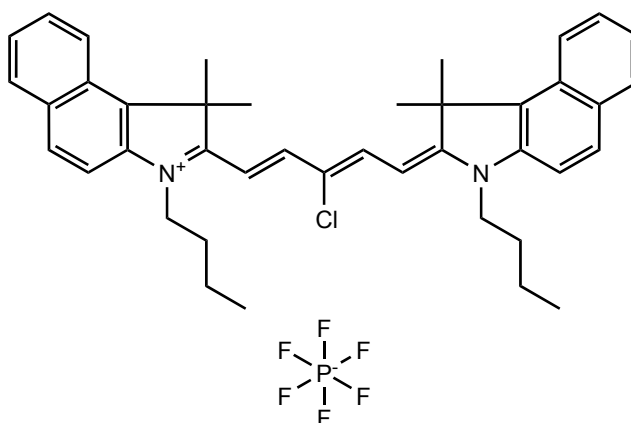


Absorption maximum	Total formula	Molecular weight	CAS #
682 nm (MeOH)	C ₄₁ H ₄₆ ClF ₆ N ₂ P	747.25 g mol ⁻¹	354540-12-8

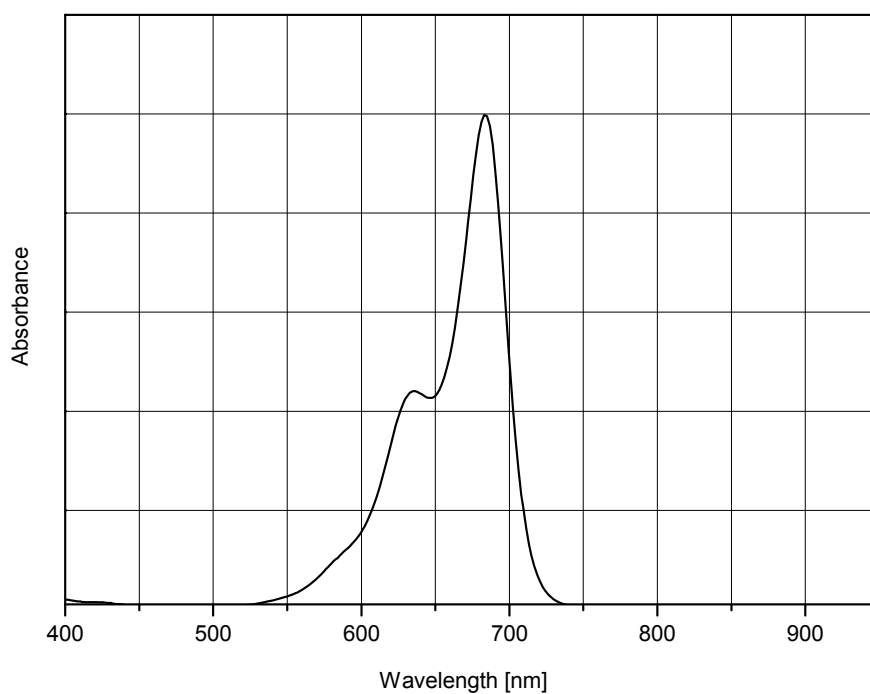
Name

3-Butyl-2-[5-(3-butyl-1,3-dihydro-1,1-dimethyl-2H-benzo[e]indol-2-ylidene)-3-chloro-penta-1,3-dienyl]-1,1-dimethyl-1H-benzo[e]indolium hexafluorophosphate

Structure



Spectrum

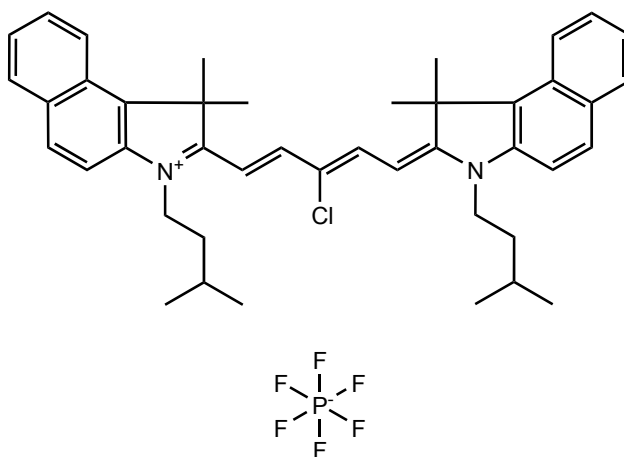


Absorption maximum	Total formula	Molecular weight	CAS #
683 nm (MeOH)	C ₄₃ H ₅₀ ClF ₆ N ₂ P	775.30 g mol ⁻¹	1526918-65-9

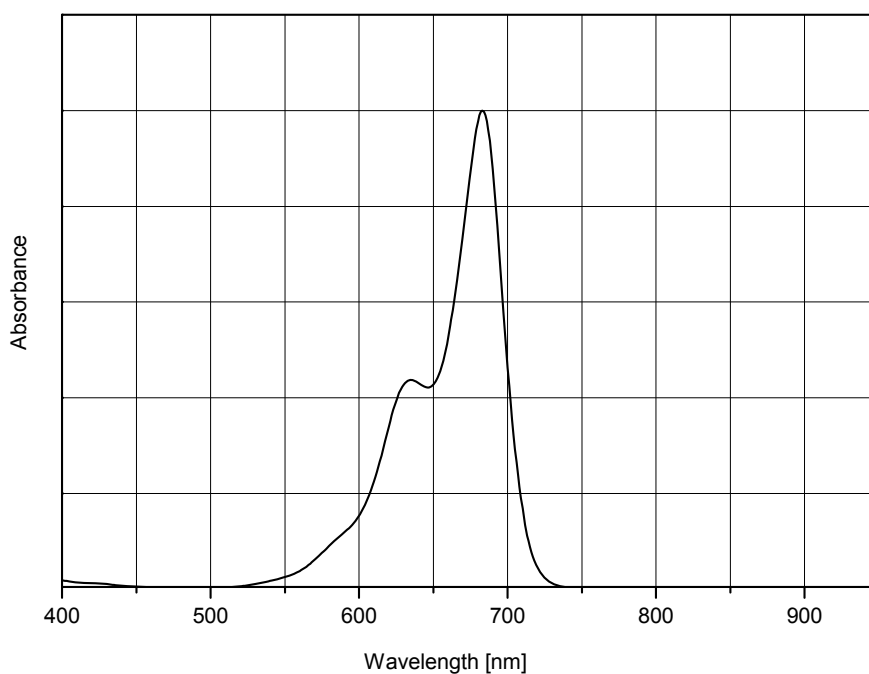
Name

2-[3-Chloro-5-[1,1-dimethyl-3-(3-methyl-butyl)-1,3-dihydro-benzo[e]indol-2-ylidene]-penta-1,3-dienyl]-1,1-dimethyl-3-(3-methyl-butyl)-1H-benzo[e]indolium hexafluorophosphate

Structure



Spectrum



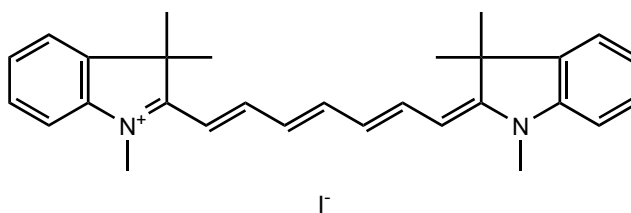
S 2364

Absorption maximum	Total formula	Molecular weight	CAS #
740 nm (MeOH)	$C_{29}H_{33}IN_2$	$536.50 \text{ g mol}^{-1}$	19764-96-6

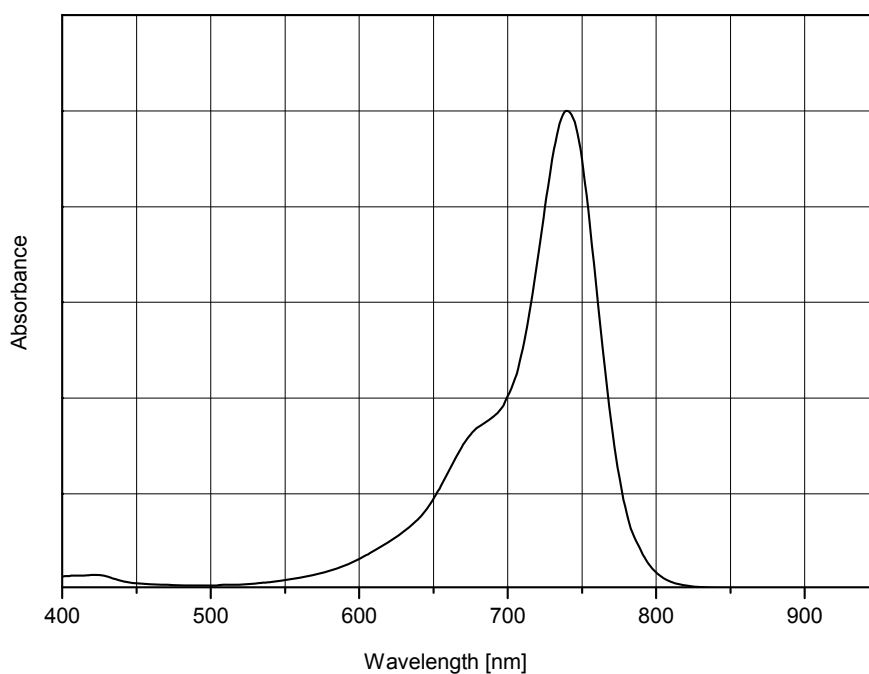
Name

1,3,3-Trimethyl-2-[7-(1,3,3-trimethyl-1,3-dihydro-indol-2-ylidene)-hepta-1,3,5-trienyl]-3H-indolium iodide

Structure



Spectrum

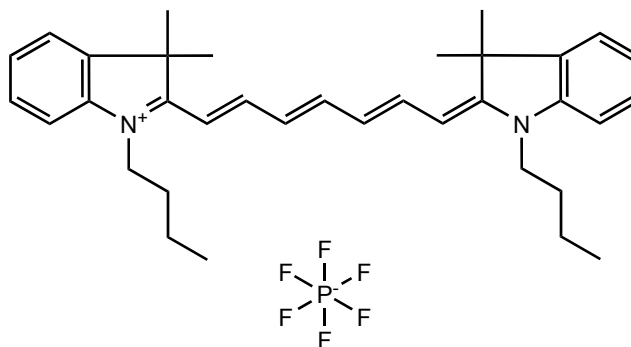


Absorption maximum	Total formula	Molecular weight	CAS #
747 nm (MeOH)	C ₃₅ H ₄₅ F ₆ N ₂ P	638.72 g mol ⁻¹	134339-08-5

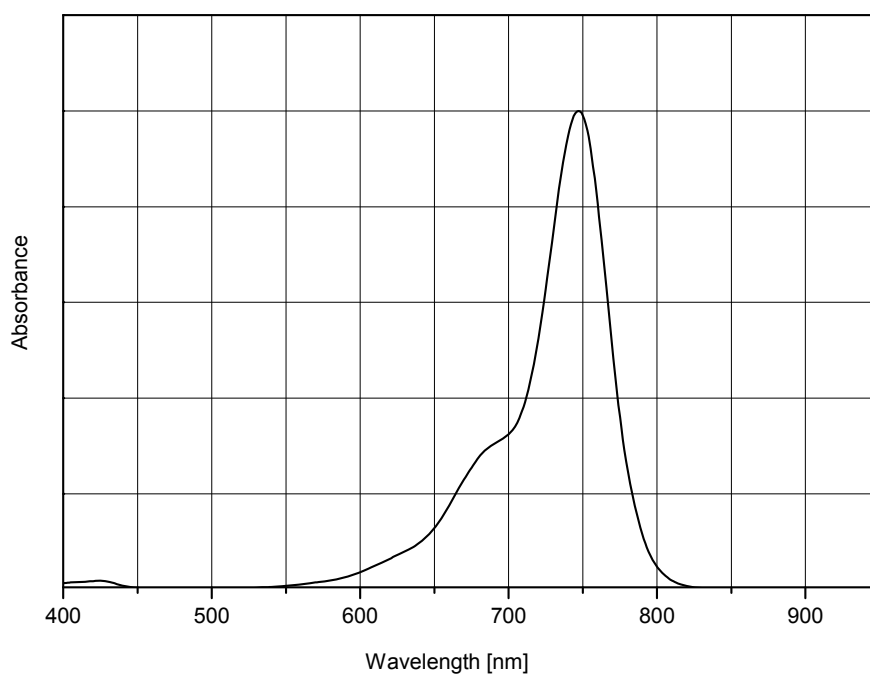
Name

1-Butyl-2-[7-(1-butyl-3,3-dimethyl-1,3-dihydro-indol-2-ylidene)-hepta-1,3,5-trienyl]-3,3-dimethyl-3H-indolium hexafluorophosphate

Structure



Spectrum



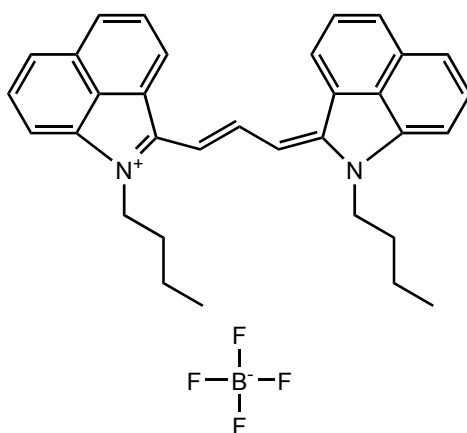
S 0773

Absorption maximum	Total formula	Molecular weight	CAS #
758 nm (MeOH)	$C_{33}H_{33}BF_4N_2$	544.44 g mol ⁻¹	143185-79-9

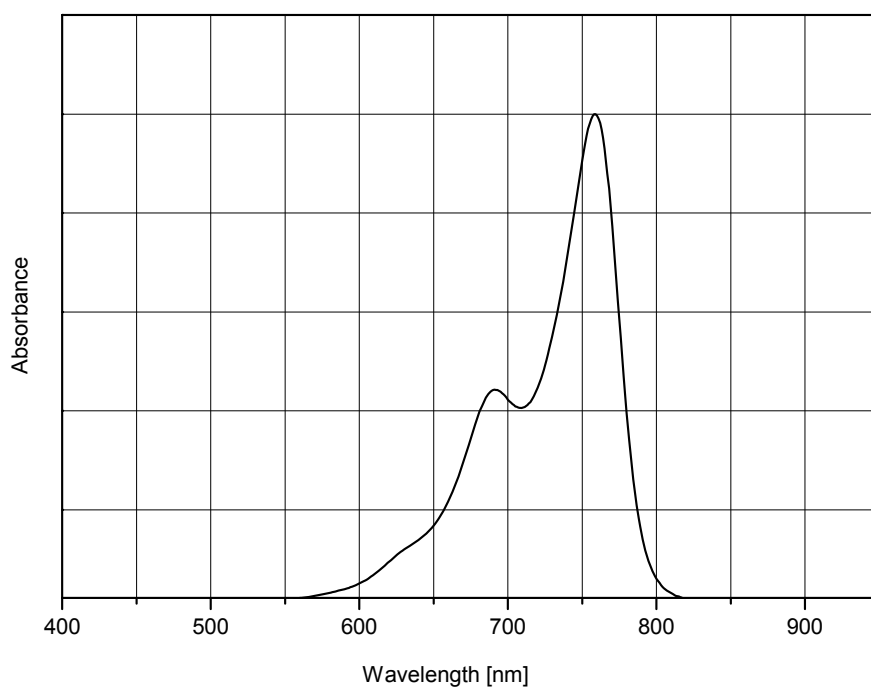
Name

1-Butyl-2-[3-(1-butyl-1H-benzo[cd]indol-2-ylidene)-propenyl]-benzo[cd]indolium tetrafluoroborate

Structure



Spectrum

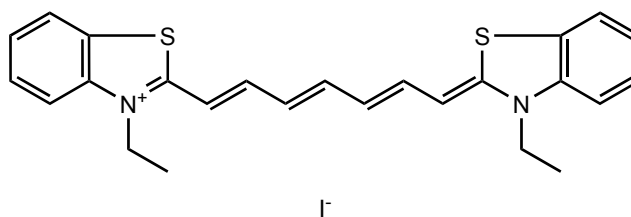


Absorption maximum	Total formula	Molecular weight	CAS #
760 nm (MeOH)	C ₂₅ H ₂₅ IN ₂ S ₂	544.51 g mol ⁻¹	3071-70-3

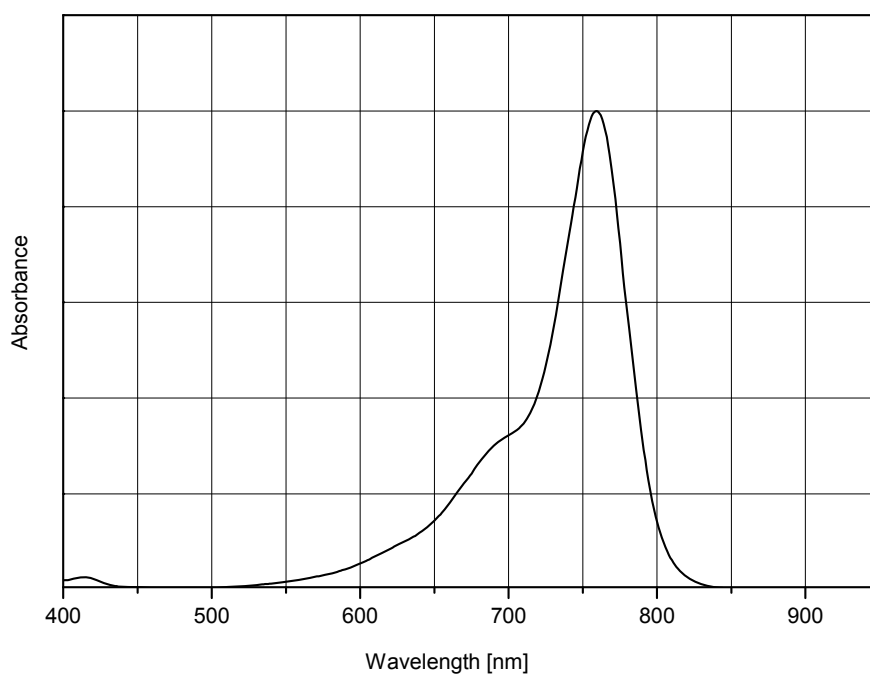
Name

3-Ethyl-2-[7-(3-ethyl-3H-benzothiazol-2-ylidene)-hepta-1,3,5-trienyl]-benzothiazolium iodide

Structure



Spectrum

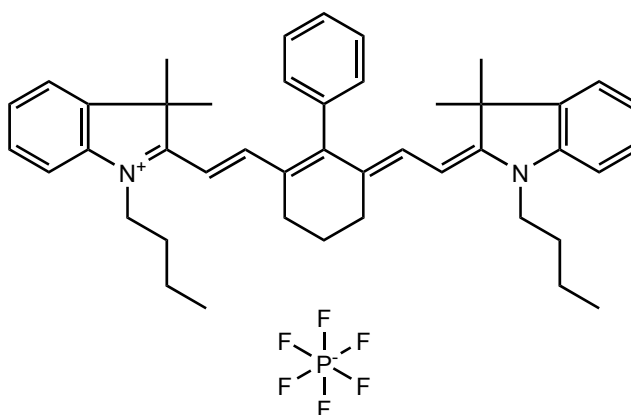


Absorption maximum	Total formula	Molecular weight	CAS #
761 nm (MeOH)	C ₄₄ H ₅₃ F ₆ N ₂ P	754.88 g mol ⁻¹	1472004-00-4

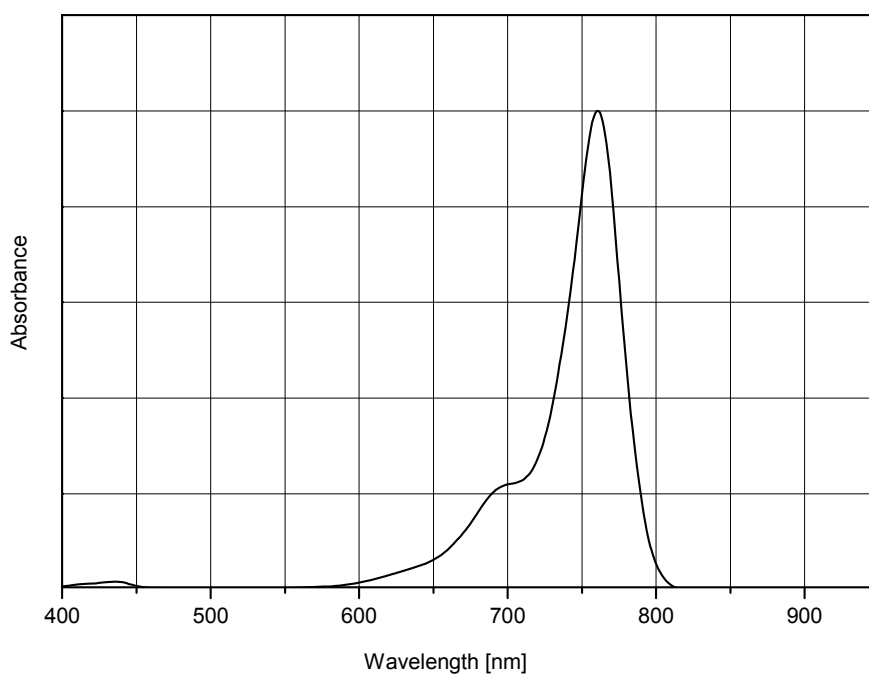
Name

1-Butyl-2-(2-[3-[2-(1-butyl-3,3-dimethyl-1,3-dihydro-indol-2-ylidene)-ethylidene]-2-phenyl-cyclohex-1-enyl]-vinyl)-3,3-dimethyl-3H-indolium hexafluorophosphate

Structure



Spectrum

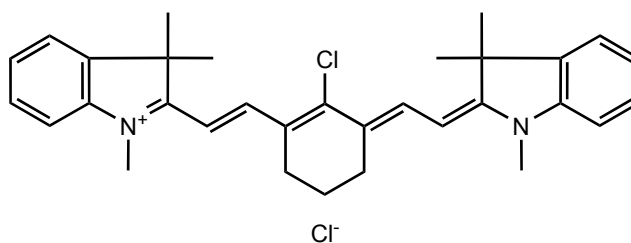


Absorption maximum	Total formula	Molecular weight	CAS #
775 nm (MeOH)	C ₃₂ H ₃₆ Cl ₂ N ₂	519.56 g mol ⁻¹	199444-11-6

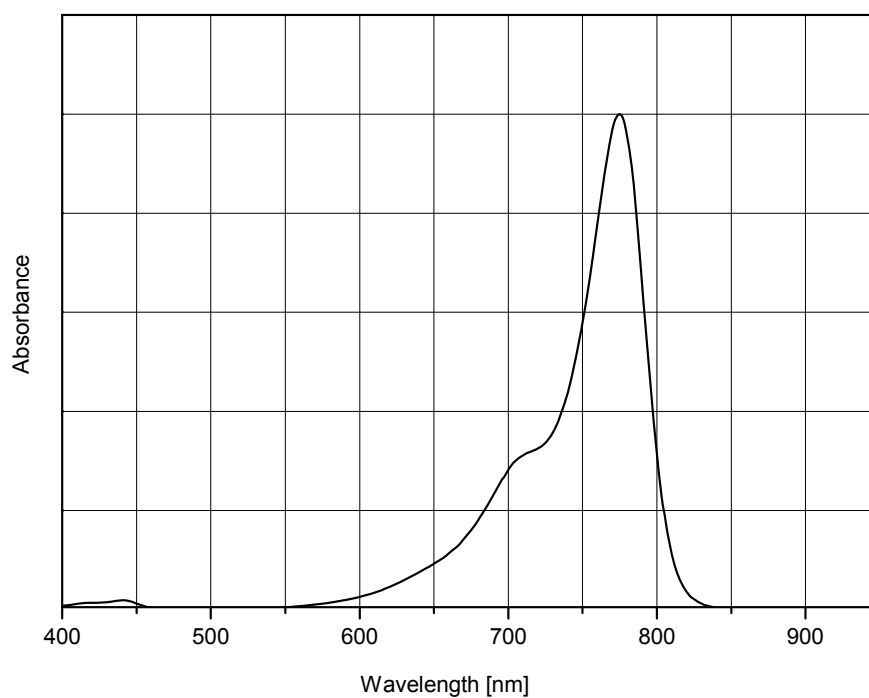
Name

2-[2-[2-Chloro-3-[2-(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)-ethylidene]-1-cyclohexen-1-yl]-ethenyl]-1,3,3-trimethyl-3H-indolium chloride

Structure



Spectrum

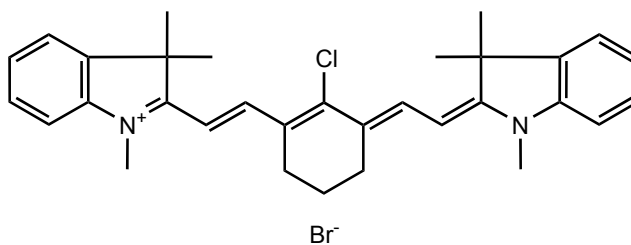


Absorption maximum	Total formula	Molecular weight	CAS #
775 nm (MeOH)	$C_{32}H_{36}BrClN_2$	564.01 g mol ⁻¹	212964-63-1

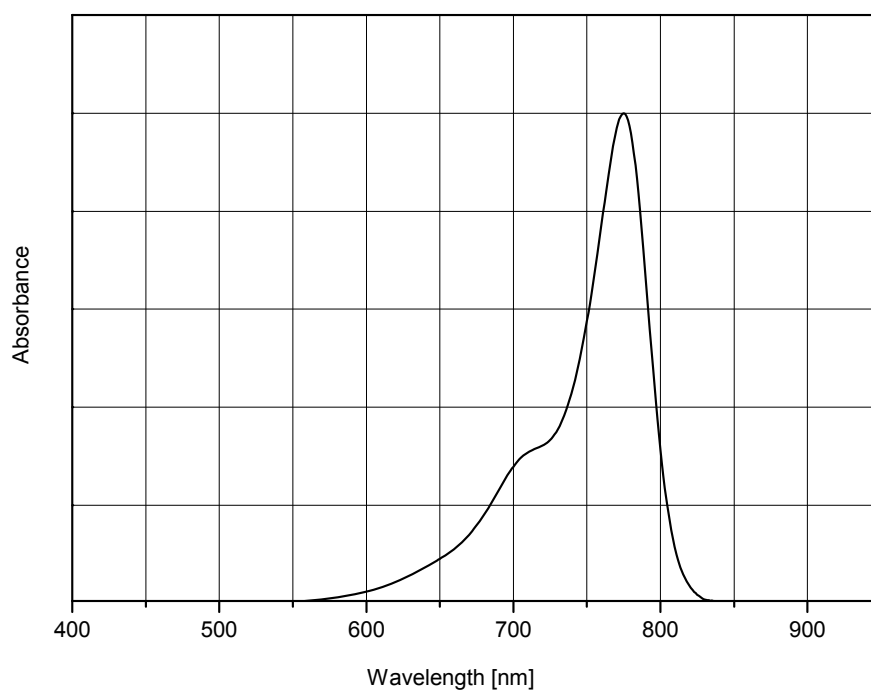
Name

2-[2-[2-Chloro-3-[2-(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)-ethylidene]-1-cyclohexen-1-yl]-ethenyl]-1,3,3-trimethyl-3H-indolium bromide

Structure



Spectrum

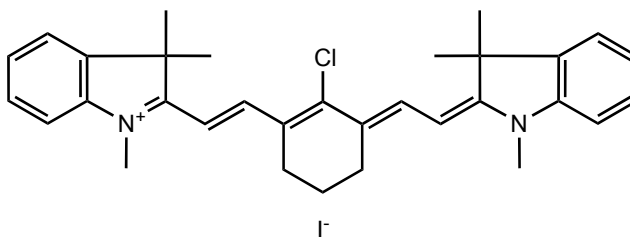


Absorption maximum	Total formula	Molecular weight	CAS #
775 nm (MeOH)	C ₃₂ H ₃₆ ClIN ₂	611.01 g mol ⁻¹	56289-67-9

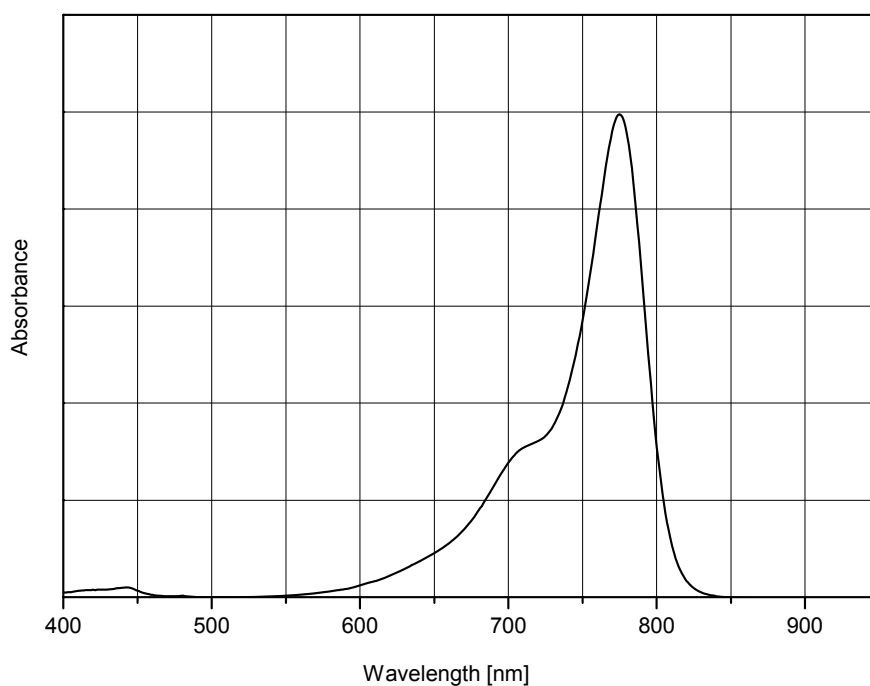
Name

2-[2-[2-Chloro-3-[2-(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)-ethylidene]-1-cyclohexen-1-yl]-ethenyl]-1,3,3-trimethyl-3H-indolium iodide

Structure



Spectrum

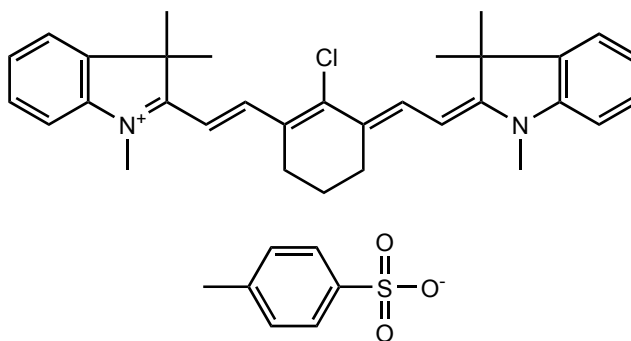


Absorption maximum	Total formula	Molecular weight	CAS #
775 nm (MeOH)	C ₃₉ H ₄₃ ClN ₂ O ₃ S	655.30 g mol ⁻¹	205744-92-9

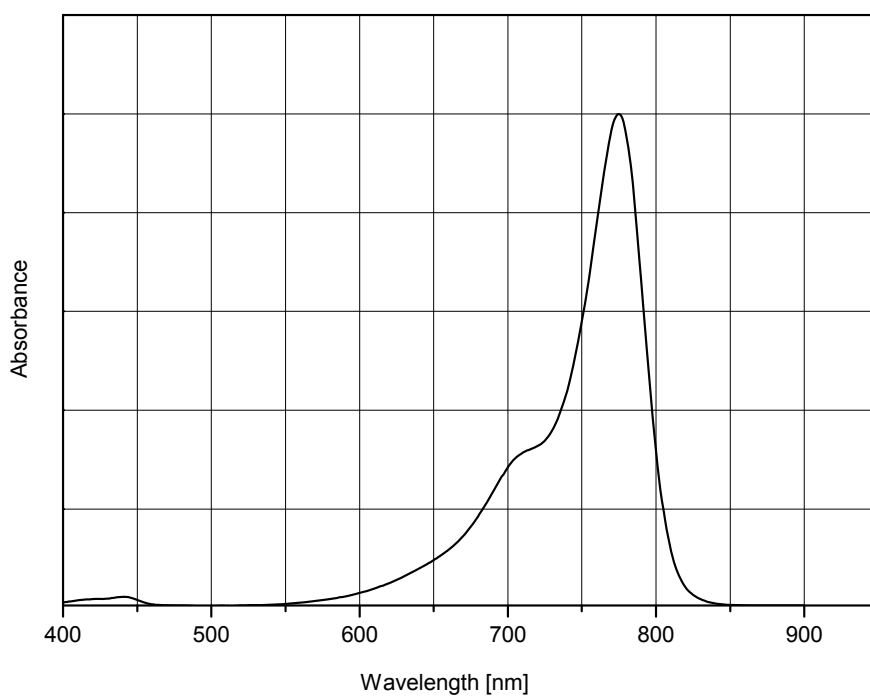
Name

2-[2-[2-Chloro-3-[2-(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)-ethylidene]-1-cyclohexen-1-yl]-ethenyl]-1,3,3-trimethyl-3H-indolium 4-methylbenzenesulfonate

Structure



Spectrum

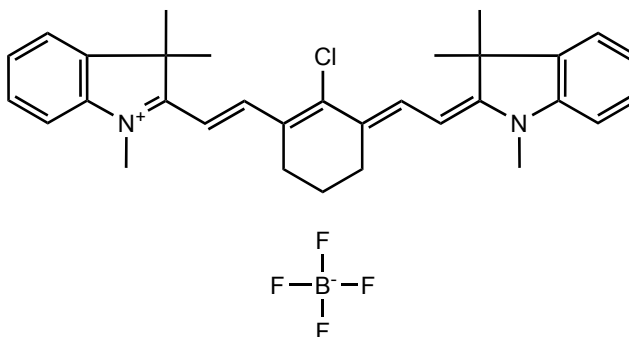


Absorption maximum	Total formula	Molecular weight	CAS #
775 nm (MeOH)	C ₃₂ H ₃₆ BClF ₄ N ₂	570.91 g mol ⁻¹	439859-04-8

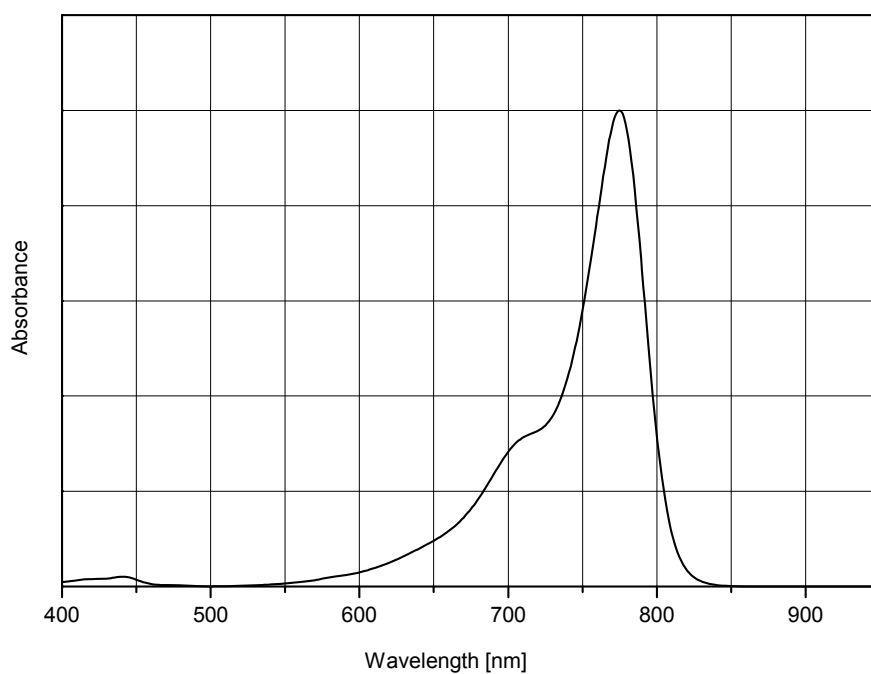
Name

2-[2-[2-Chloro-3-[2-(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)-ethylidene]-1-cyclohexen-1-yl]-ethenyl]-1,3,3-trimethyl-3H-indolium tetrafluoroborate

Structure



Spectrum



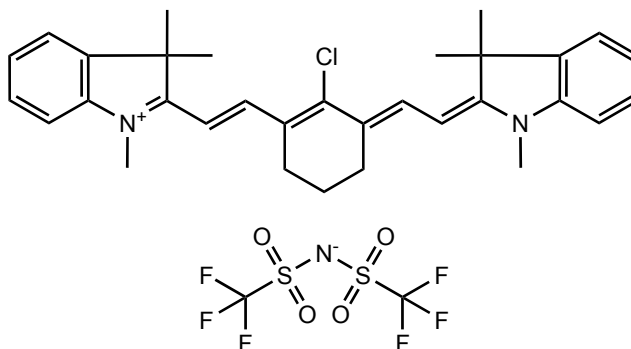
S 2404

Absorption maximum	Total formula	Molecular weight	CAS #
775 nm (MeOH)	$C_{34}H_{36}ClF_6N_3O_4S_2$	764.24 g mol ⁻¹	1414373-51-5

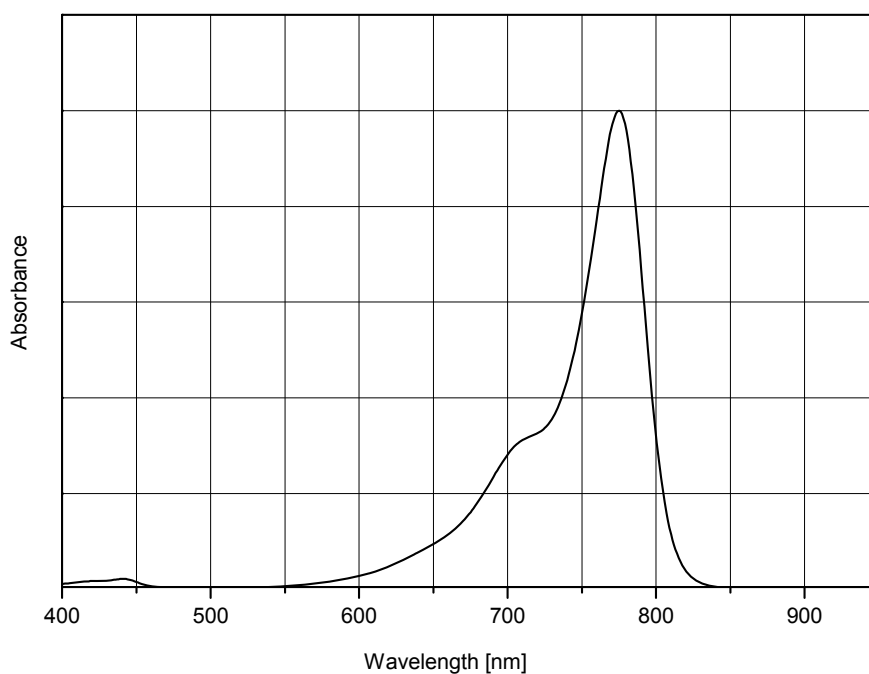
Name

2-(2-[2-Chloro-3-[2-(1,3,3-trimethyl-1,3-dihydro-indol-2-ylidene)-ethylidene]-cyclohex-1-enyl]-vinyl)-1,3,3-trimethyl-3H-indolium bistrifluoromethanesulfonimide

Structure



Spectrum

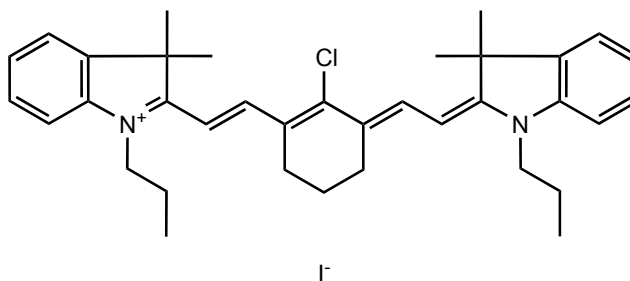


Absorption maximum	Total formula	Molecular weight	CAS #
781 nm (MeOH)	C ₃₆ H ₄₄ ClIN ₂	667.12 g mol ⁻¹	207399-07-3

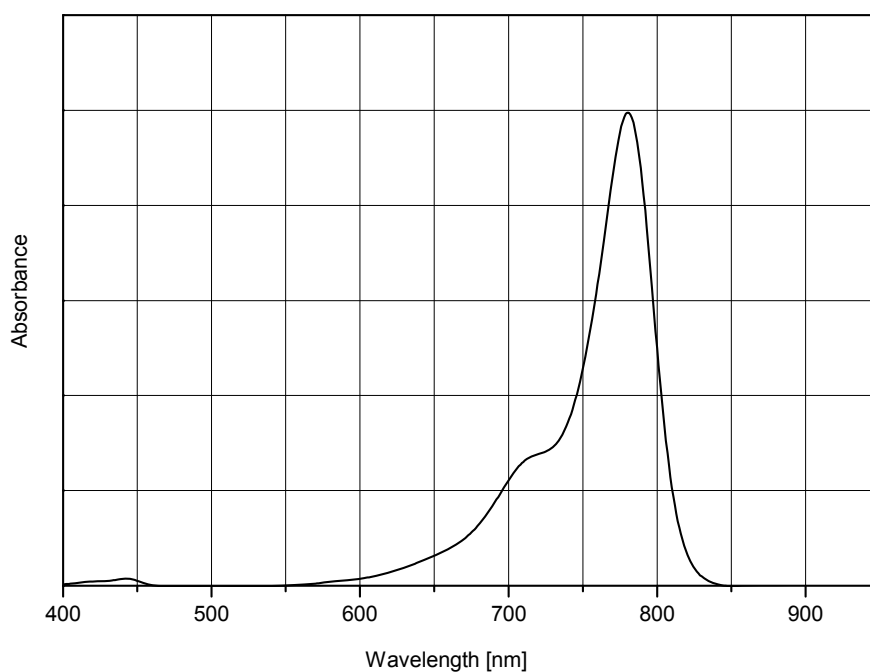
Name

2-(2-[2-Chloro-3-[2-(3,3-dimethyl-1-propyl-1,3-dihydro-indol-2-ylidene)-ethylidene]-cyclohex-1-enyl]-vinyl)-3,3-dimethyl-1-propyl-3H-indolium iodide

Structure



Spectrum

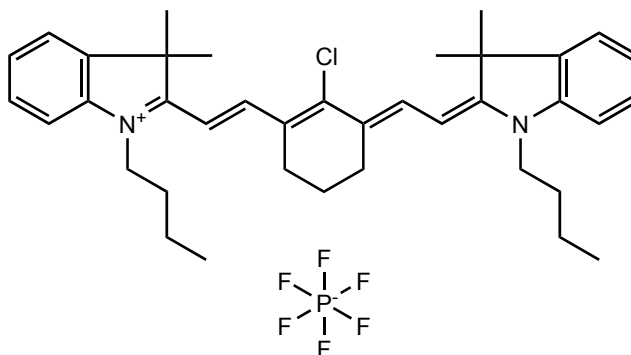


Absorption maximum	Total formula	Molecular weight	CAS #
781 nm (MeOH)	$C_{38}H_{48}ClF_6N_2P$	713.23 g mol ⁻¹	885691-97-4

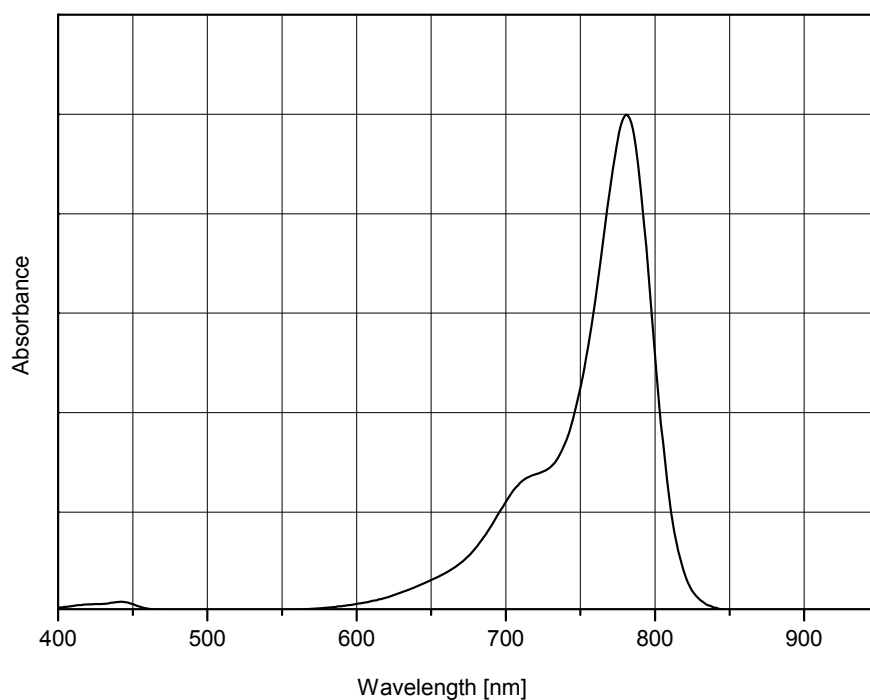
Name

1-Butyl-2-(2-[3-[2-(1-butyl-3,3-dimethyl-1,3-dihydro-indol-2-ylidene)-ethylidene]-2-chloro-cyclohex-1-enyl]-vinyl)-3,3-dimethyl-3H-indolium hexafluorophosphate

Structure



Spectrum

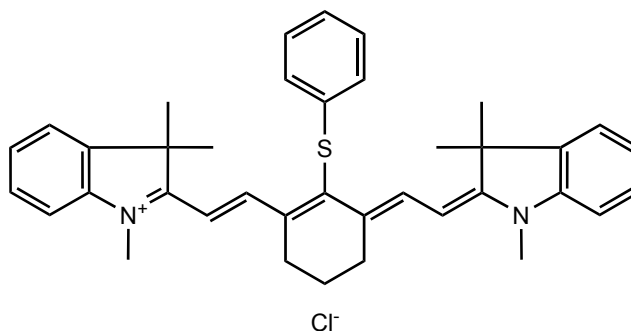


Absorption maximum	Total formula	Molecular weight	CAS #
787 nm (MeOH)	$C_{38}H_{41}ClN_2S$	593.27 g mol ⁻¹	269401-43-6

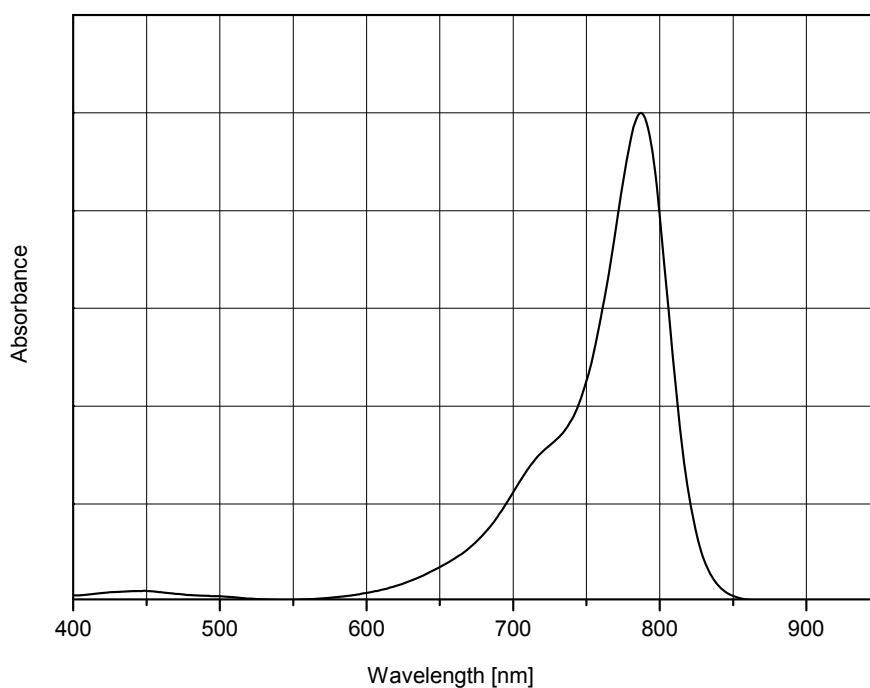
Name

1,3,3-Trimethyl-2-(2-[2-phenylsulfanyl-3-[2-(1,3,3-trimethyl-1,3-dihydro-indol-2-ylidene)-ethylidene]-cyclohex-1-enyl]-vinyl)-3H-indolium chloride

Structure



Spectrum

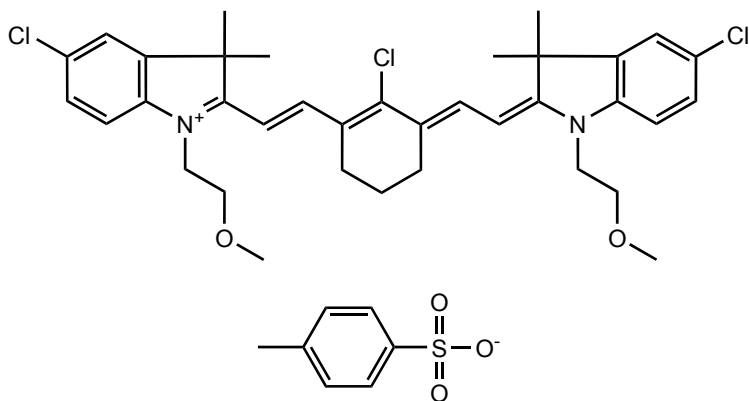


Absorption maximum	Total formula	Molecular weight	CAS #
789 nm (MeOH)	C ₄₃ H ₄₉ Cl ₃ N ₂ O ₅ S	812.29 g mol ⁻¹	406195-26-4

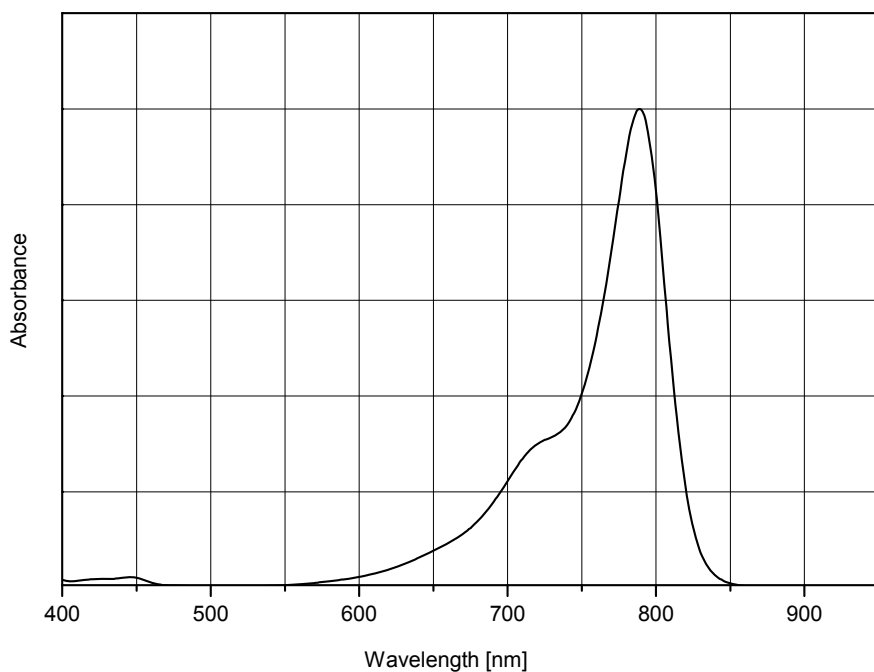
Name

5-Chloro-2-[2-(2-chloro-3-{2-[5-chloro-1-(2-methoxy-ethyl)-3,3-dimethyl-1,3-dihydro-indol-2-ylidene]-ethylidene}-cyclohex-1-enyl)-vinyl]-1-(2-methoxy-ethyl)-3,3-dimethyl-3H-indolium 4-methylbenzenesulfonate

Structure



Spectrum

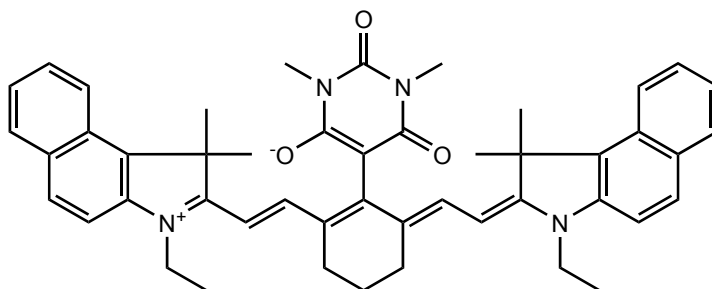


Absorption maximum	Total formula	Molecular weight	CAS #
791 nm (MeOH)	C ₄₈ H ₅₀ N ₄ O ₃	730.95 g mol ⁻¹	1841139-28-3

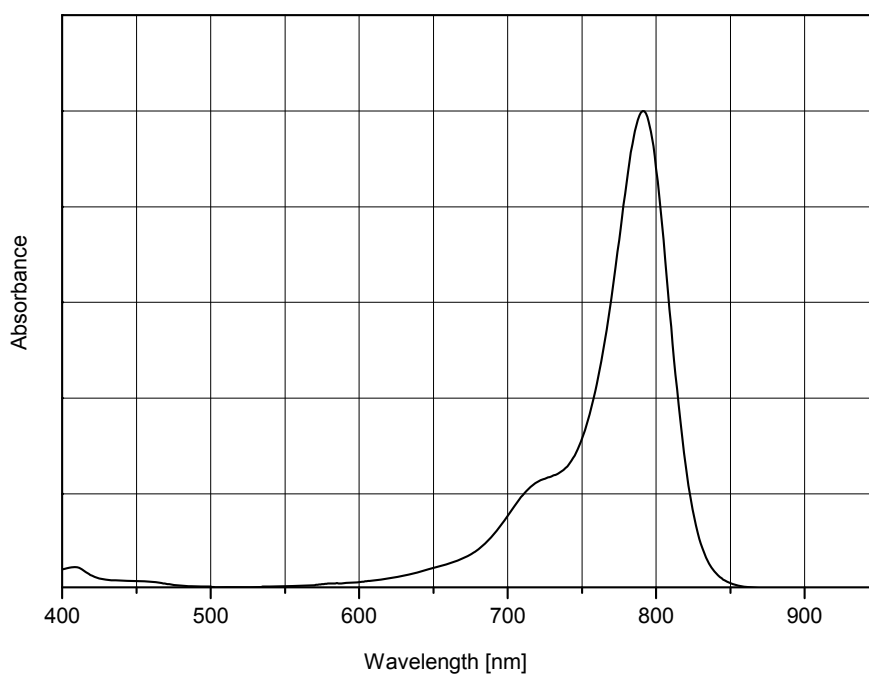
Name

5-(6-(2-(3-Ethyl-1,1-dimethyl-1H-benzo[e]indol-2(3H)-ylidene)ethylidene)-2-(2-(3-ethyl-1,1-dimethyl-1H-benzo[e]indol-3-ium-2-yl)vinyl)cyclohex-1-en-1-yl)-1,3-dimethyl-2,6-dioxo-1,2,3,6-tetrahydropyrimidin-4-olate

Structure



Spectrum

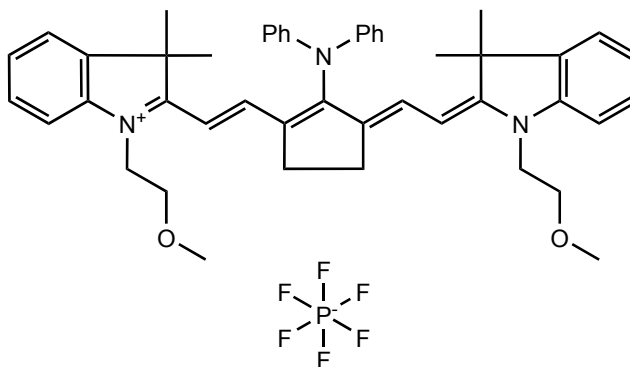


Absorption maximum	Total formula	Molecular weight	CAS #
792 nm (MeOH)	C ₄₇ H ₅₂ F ₆ N ₃ O ₂ P	835.92 g mol ⁻¹	

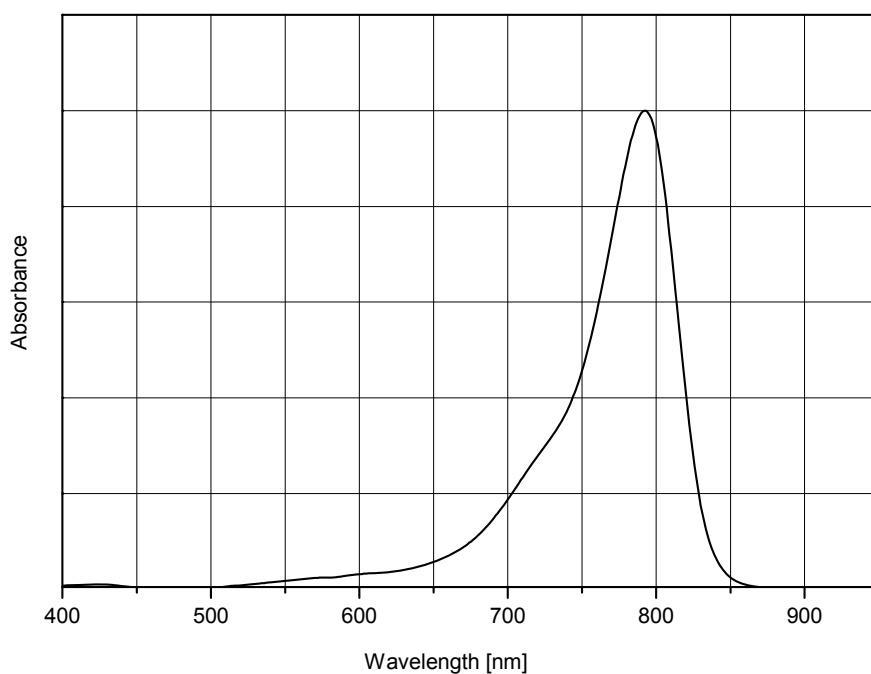
Name

2-[2-(2-Diphenylamino-3-{2-[1-(2-methoxy-ethyl)-3,3-dimethyl-1,3-dihydro-indol-2-ylidene]-ethylidene)-cyclopent-1-enyl]-vinyl]-1-(2-methoxy-ethyl)-3,3-dimethyl-3H-indolium hexafluorophosphate

Structure



Spectrum

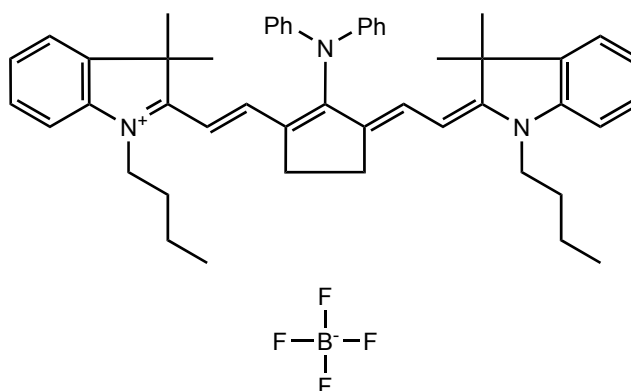


Absorption maximum	Total formula	Molecular weight	CAS #
794 nm (MeOH)	C ₄₉ H ₅₆ BF ₄ N ₃	773.81 g mol ⁻¹	1888324-74-0

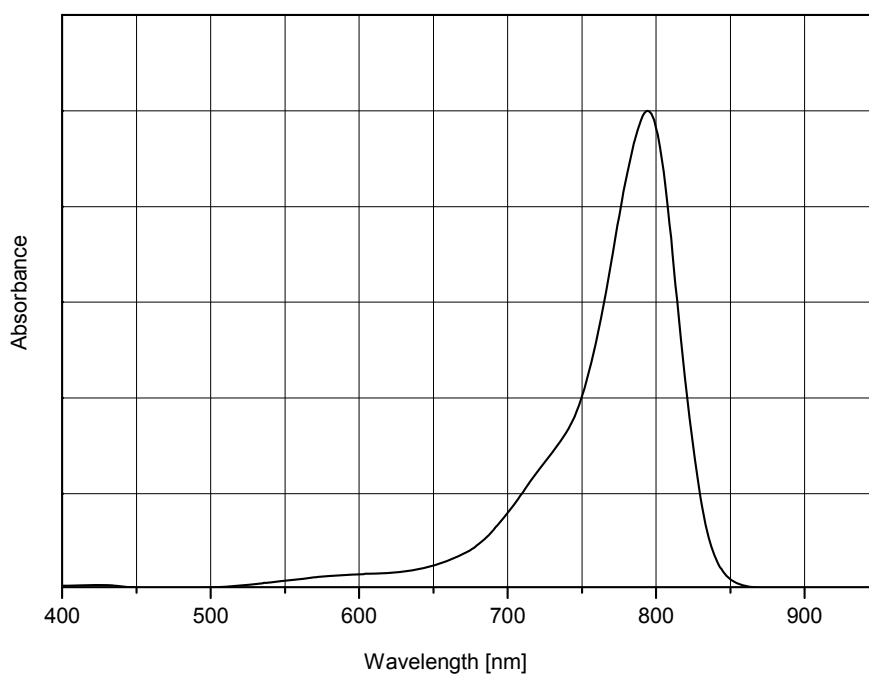
Name

1-Butyl-2-(2-[3-[2-(1-butyl-3,3-dimethyl-1,3-dihydro-indol-2-ylidene)-ethylidene]-2-diphenylamino-cyclopent-1-enyl]-vinyl)-3,3-dimethyl-3H-indolium tetrafluoroborate

Structure



Spectrum

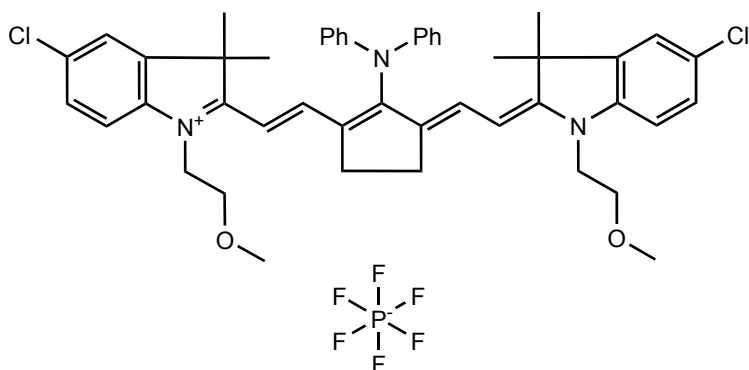


Absorption maximum	Total formula	Molecular weight	CAS #
796 nm (MeOH)	C ₄₇ H ₅₀ Cl ₂ F ₆ N ₃ O ₂ P	904.80 g mol ⁻¹	

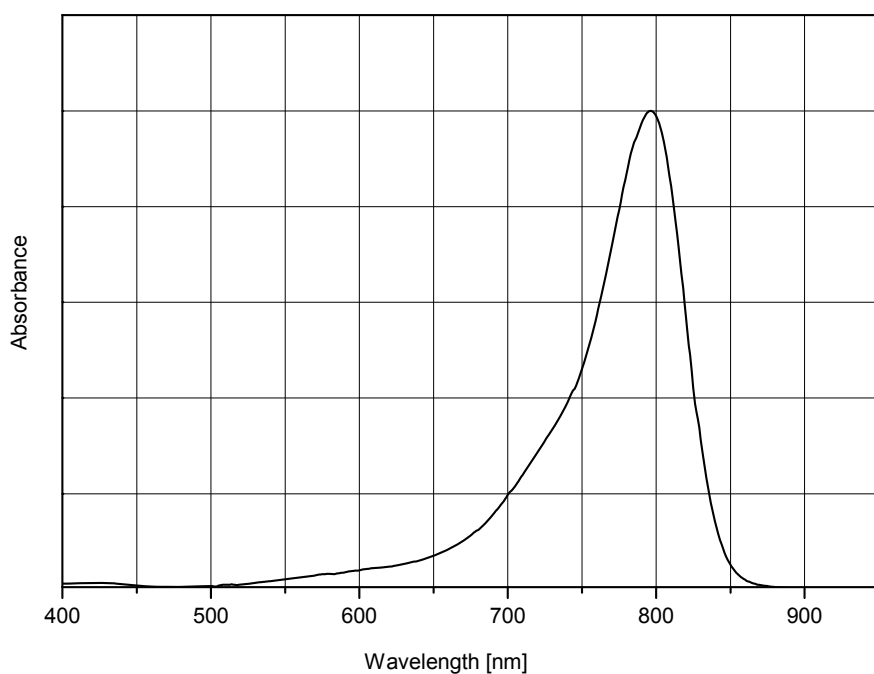
Name

5-Chloro-2-[2-(3-{2-[5-chloro-1-(2-methoxy-ethyl)-3,3-dimethyl-1,3-dihydro-indol-2-ylidene]-ethylidene}-2-diphenylamino-cyclopent-1-enyl)-vinyl]-1-(2-methoxy-ethyl)-3,3-dimethyl-3H-indolium hexafluorophosphate

Structure



Spectrum

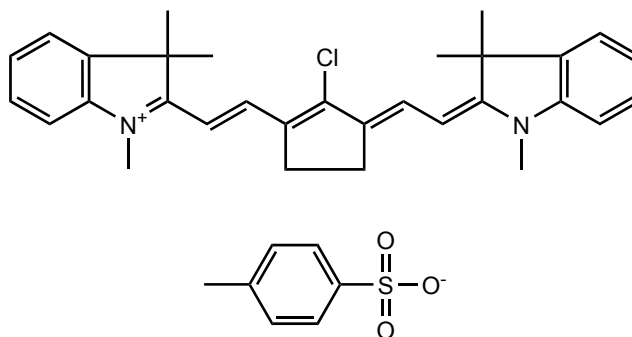


Absorption maximum	Total formula	Molecular weight	CAS #
797 nm (MeOH)	$C_{38}H_{41}ClN_2O_3S$	641.27 g mol ⁻¹	193687-61-5

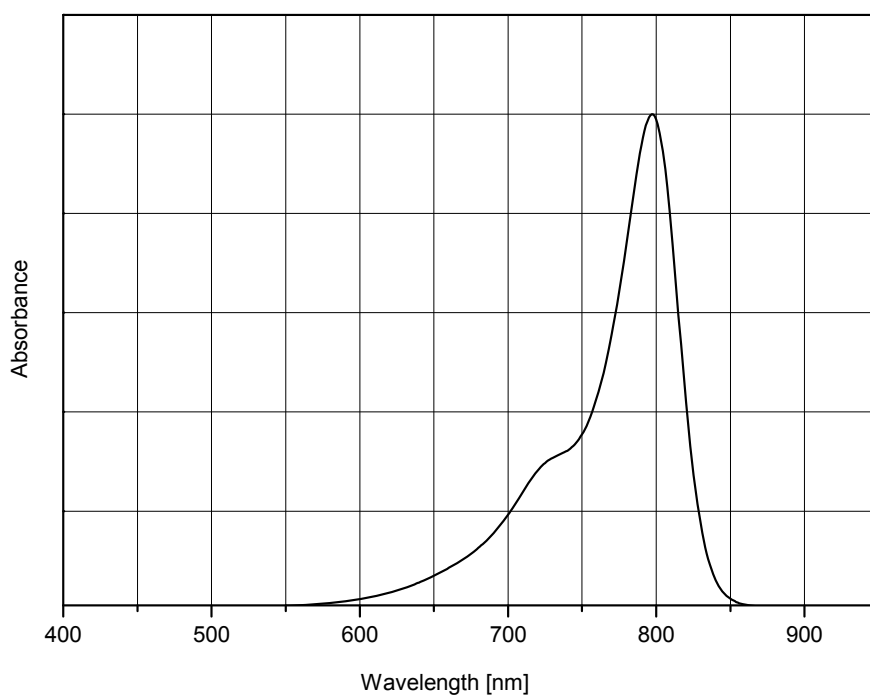
Name

2-[2-[2-Chloro-3-[2-(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)-ethylidene]-1-cyclopenten-1-yl]-ethenyl]-1,3,3-trimethyl-3H-indolium 4-methylbenzenesulfonate

Structure



Spectrum

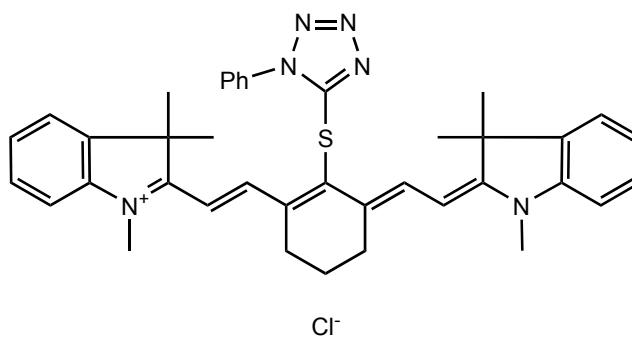


Absorption maximum	Total formula	Molecular weight	CAS #
798 nm (MeOH)	C ₃₉ H ₄₁ ClN ₆ S	661.31 g mol ⁻¹	440102-72-7

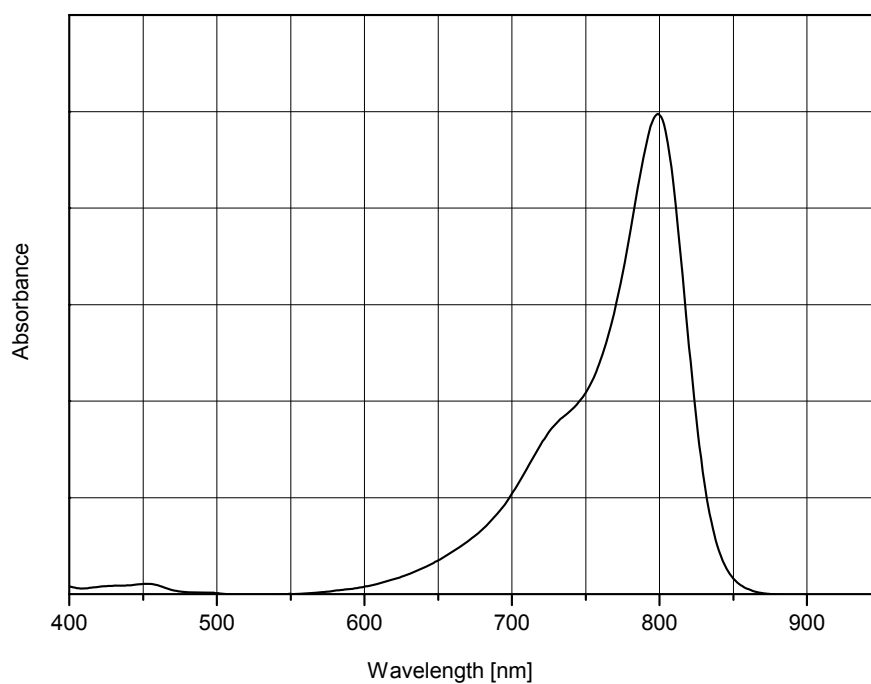
Name

2-[2-[3-[2-(1,3-Dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)-ethylidene]-2-(1-phenyl-1H-tetrazol-5-ylsulfanyl)-1-cyclohexen-1-yl]-ethenyl]-1,3,3-trimethyl-3H-indolium chloride

Structure



Spectrum

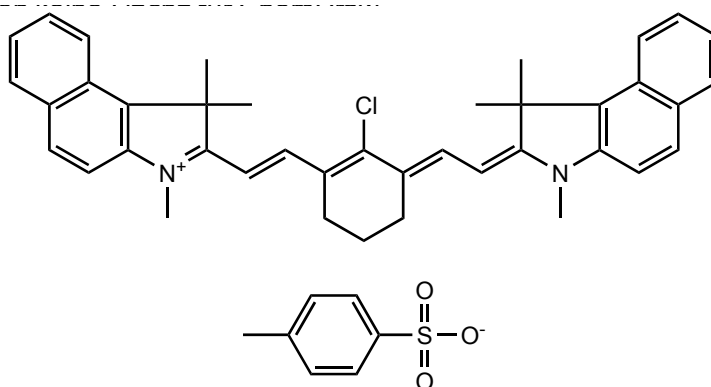


Absorption maximum	Total formula	Molecular weight	CAS #
813 nm (MeOH)	C ₄₇ H ₄₇ ClN ₂ O ₃ S	755.41 g mol ⁻¹	134127-48-3

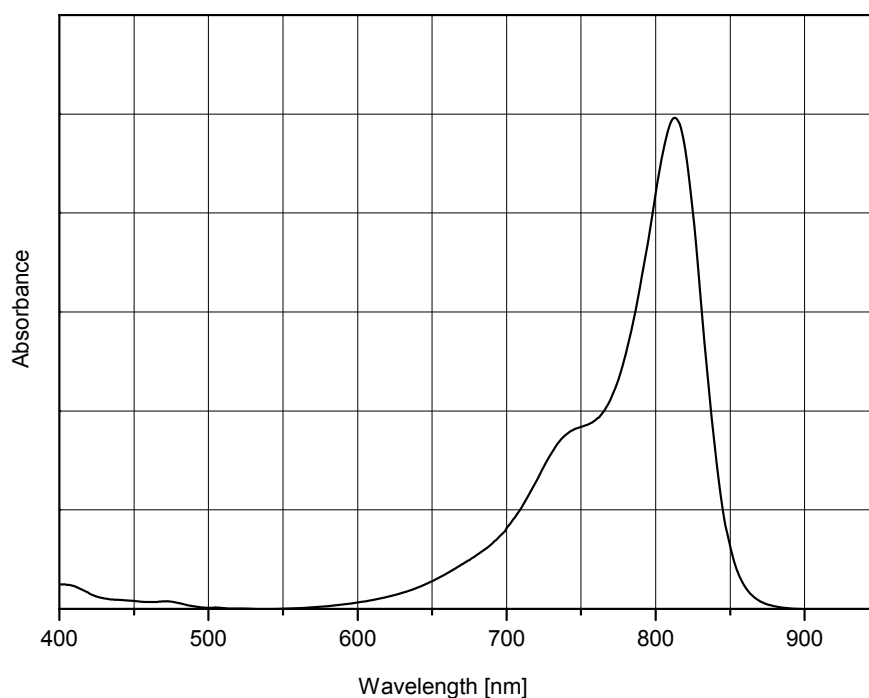
Name

2-[2-[2-Chloro-3-[2-(1,3-dihydro-1,1,3-trimethyl-2H-benzo[e]-indol-2-ylidene)-ethylidene]-1-cyclohexen-1-yl]-ethenyl]-1,1,3-trimethyl-1H-benzo[e]indolium 4-methylbenzenesulfonate

Structure



Spectrum

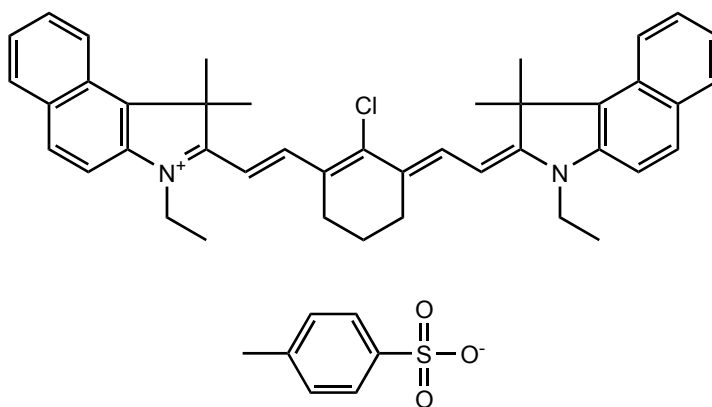


Absorption maximum	Total formula	Molecular weight	CAS #
816 nm (MeOH)	C ₄₉ H ₅₁ ClN ₂ O ₃ S	783.47 g mol ⁻¹	460337-33-1

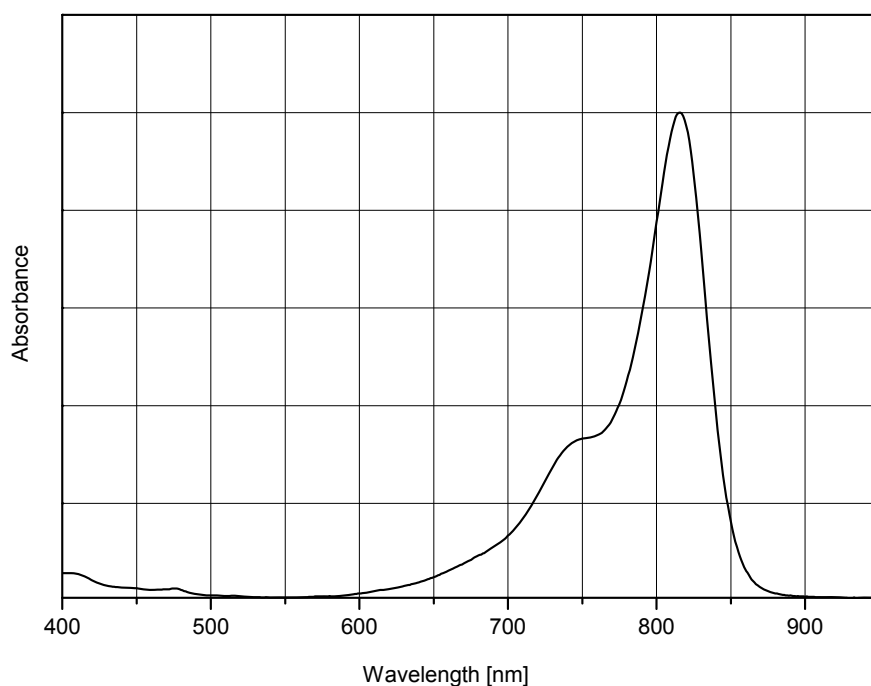
Name

2-(2-[2-Chloro-3-[2-(3-ethyl-1,1-dimethyl-1,3-dihydro-benzo[e]indol-2-ylidene)-ethylidene]-cyclohex-1-enyl]-vinyl)-3-ethyl-1,1-dimethyl-1H-benzo[e]indolium 4-methylbenzenesulfonate

Structure



Spectrum

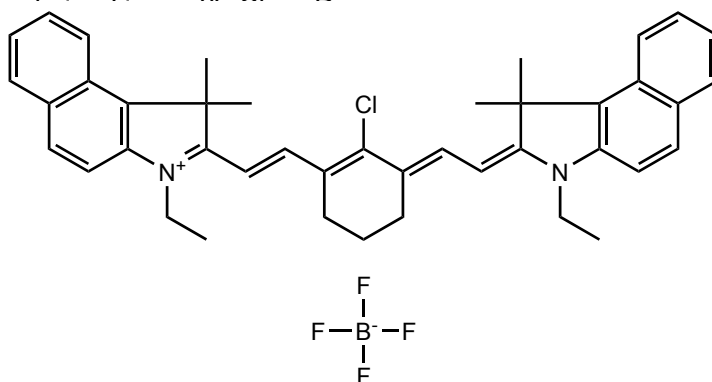


Absorption maximum	Total formula	Molecular weight	CAS #
816 nm (MeOH)	C ₄₂ H ₄₄ BClF ₄ N ₂	699.08 g mol ⁻¹	193687-63-7

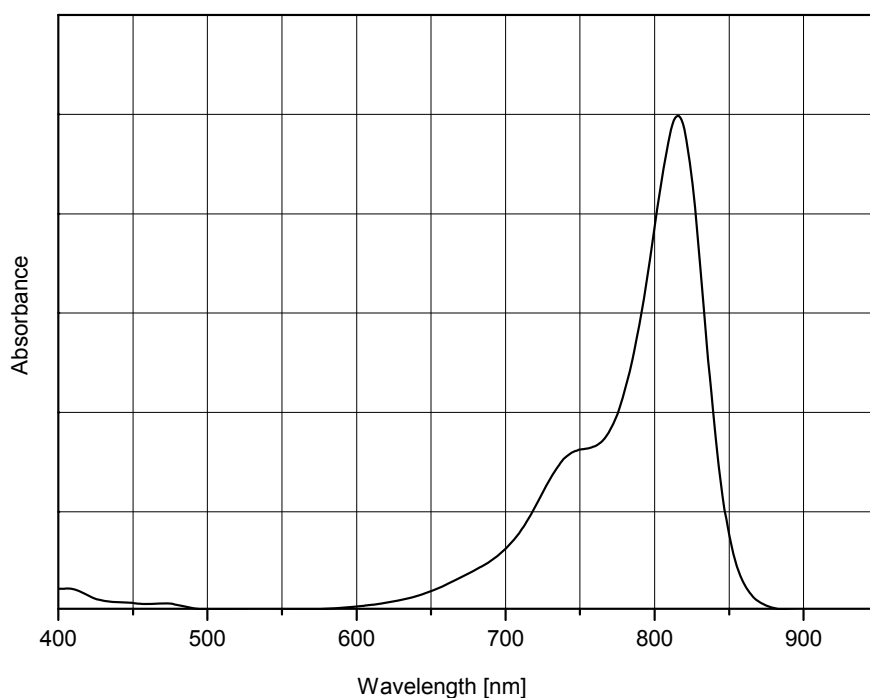
Name

2-[2-[2-Chloro-3-[2-(3-ethyl-1,3-dihydro-1,1-dimethyl-2H-benzo[e]indol-2-ylidene)-ethylidene]-1-cyclohexen-1-yl]-ethenyl]-3-ethyl-1,1-dimethyl-1H-benzo[e]indolium tetrafluoroborate

Structure



Spectrum

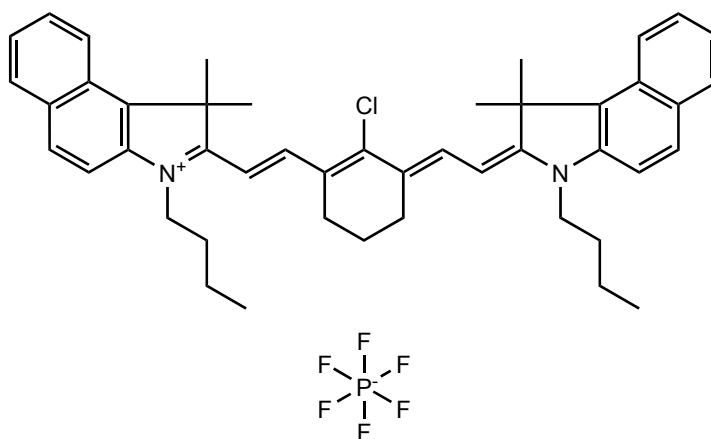


Absorption maximum	Total formula	Molecular weight	CAS #
819 nm (MeOH)	C ₄₆ H ₅₂ ClF ₆ N ₂ P	813.35 g mol ⁻¹	885691-99-6

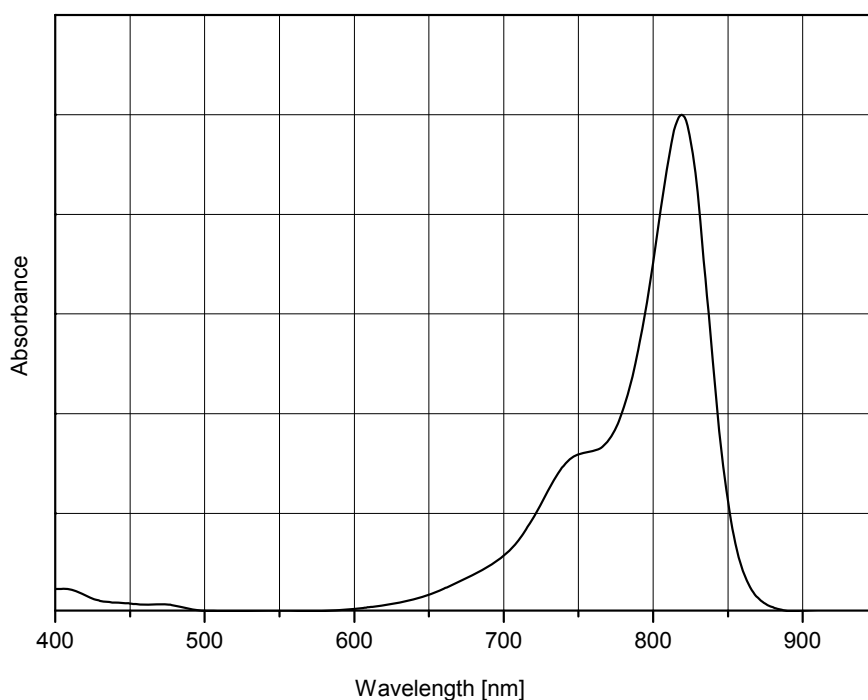
Name

3-Butyl-2-(2-[3-[2-(3-butyl-1,1-dimethyl-1,3-dihydro-benzo[e]indol-2-ylidene)-ethylidene]-2-chloro-cyclohex-1-enyl]-vinyl)-1,1-dimethyl-1H-benzo[e]indolium hexafluorophosphate

Structure



Spectrum

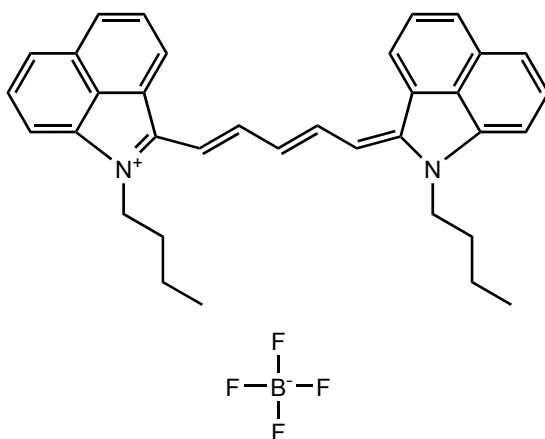


Absorption maximum	Total formula	Molecular weight	CAS #
858 nm (MeOH)	C ₃₅ H ₃₅ BF ₄ N ₂	570.48 g mol ⁻¹	1135933-68-4

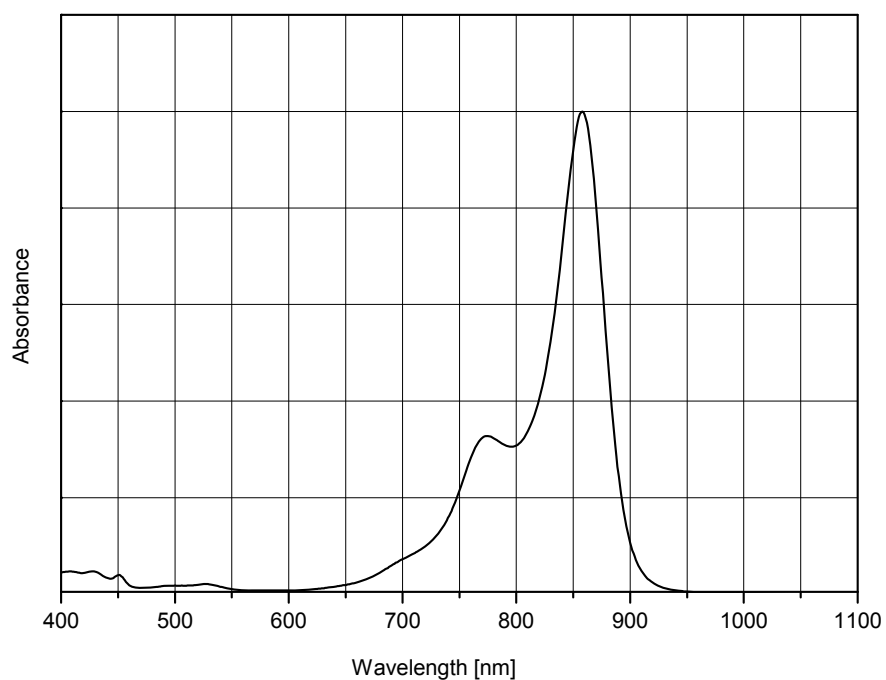
Name

1-Butyl-2-[5-(1-butyl-1H-benzo[cd]indol-2-ylidene)-penta-1,3-dienyl]-benzo[cd]indolium tetrafluoroborate

Structure



Spectrum



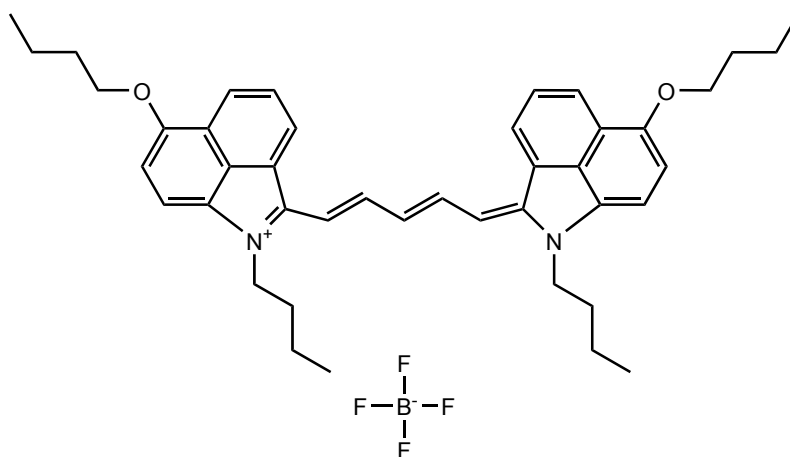
S 2437

Absorption maximum	Total formula	Molecular weight	CAS #
916 nm (MeOH)	C ₄₃ H ₅₁ BF ₄ N ₂ O ₂	714.69 g mol ⁻¹	1135933-71-9

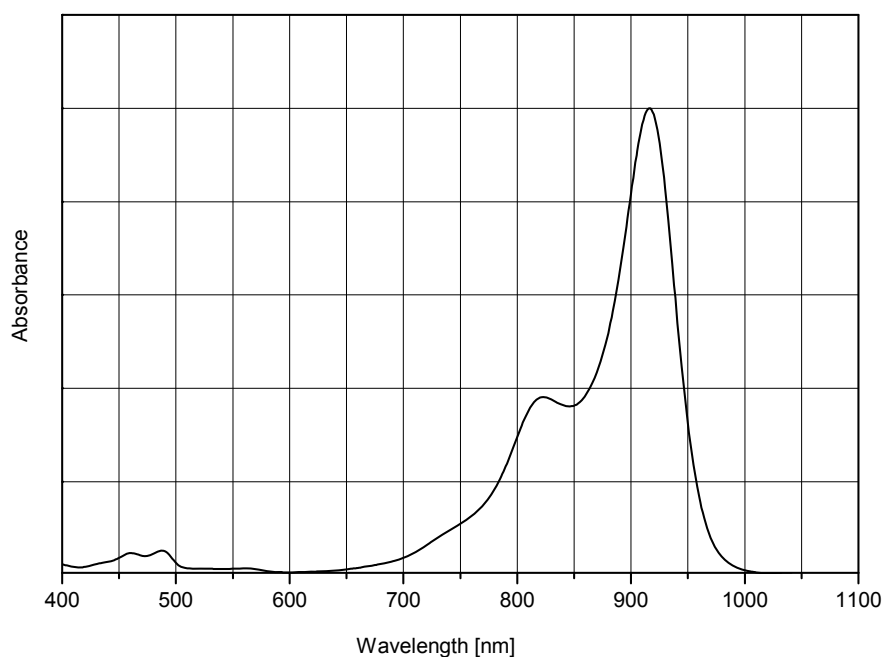
Name

6-Butoxy-2-[5-(6-butoxy-1-butyl-1H-benzo[cd]indol-2-ylidene)-penta-1,3-dienyl]-1-butyl-benzo[cd]indolium tetrafluoroborate

Structure



Spectrum

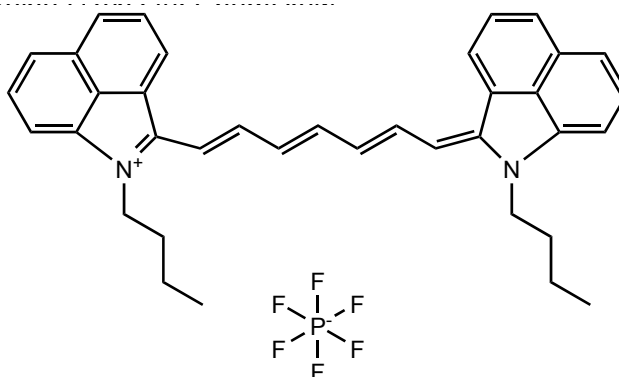


Absorption maximum	Total formula	Molecular weight	CAS #
973 nm (MeOH)	$C_{37}H_{37}F_6N_2P$	654.68 g mol ⁻¹	1610514-96-9

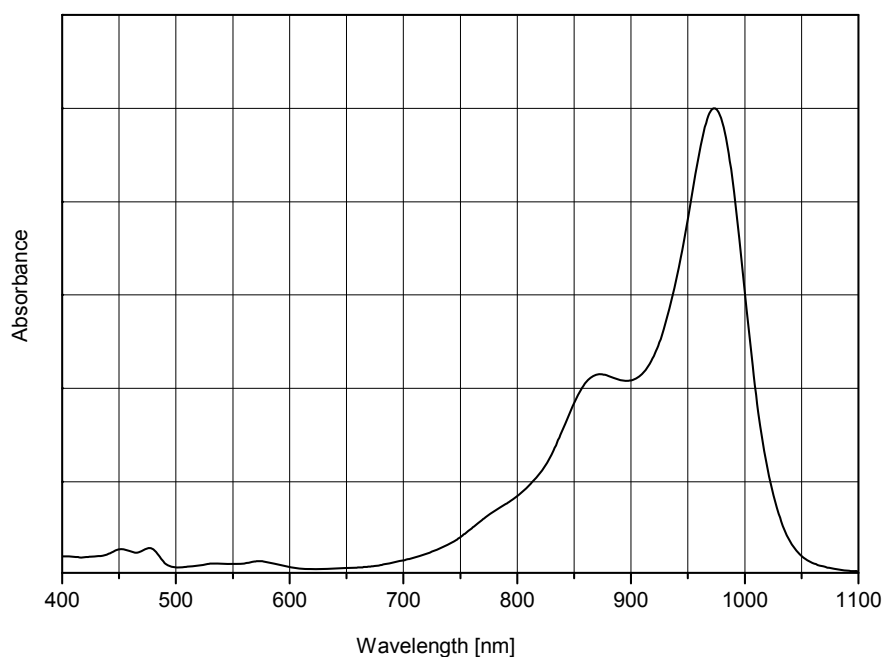
Name

1-Butyl-2-[7-(1-butyl-1H-benzo[cd]indol-2-ylidene)-hepta-1,3,5-trienyl]-benzo[cd]indolium hexafluorophosphate

Structure



Spectrum

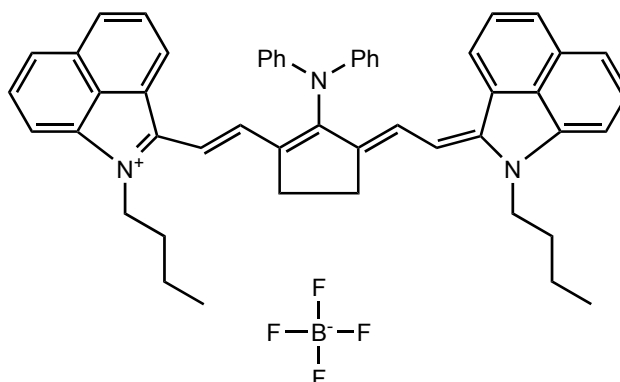


Absorption maximum	Total formula	Molecular weight	CAS #
996 nm (MeOH)	C ₅₁ H ₄₈ BF ₄ N ₃	789.77 g mol ⁻¹	1289375-52-5

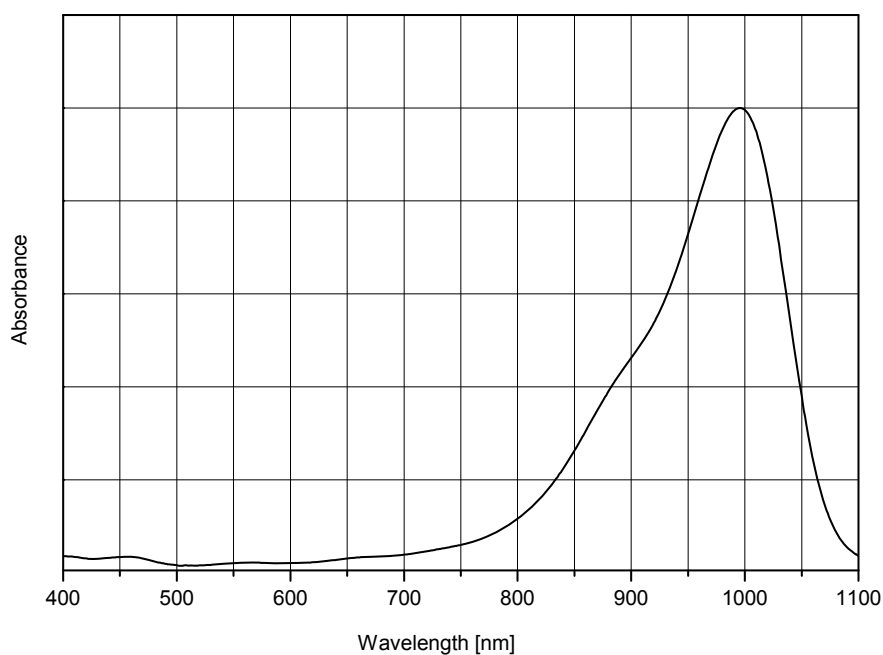
Name

1-Butyl-2-(2-[3-[2-(1-butyl-1H-benzo[cd]indol-2-ylidene)-ethylidene]-2-diphenylamino-cyclopent-1-enyl]-vinyl)-benzo[cd]indolium tetrafluoroborate

Structure



Spectrum

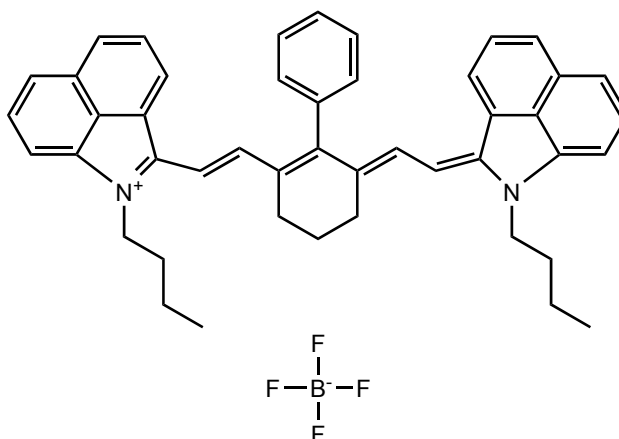


Absorption maximum	Total formula	Molecular weight	CAS #
997 nm (MeOH)	C ₄₆ H ₄₅ BF ₄ N ₂	712.68 g mol ⁻¹	1289375-50-3

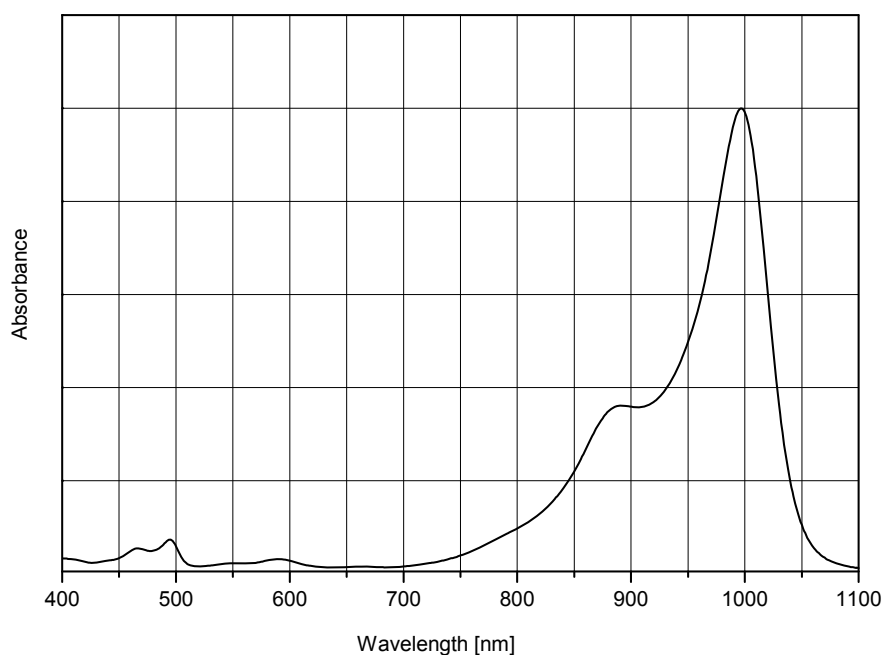
Name

1-Butyl-2-(2-[3-[2-(1-butyl-1H-benzo[cd]indol-2-ylidene)-ethylidene]-2-phenyl-cyclohex-1-enyl]-vinyl)-benzo[cd]indolium tetrafluoroborate

Structure



Spectrum

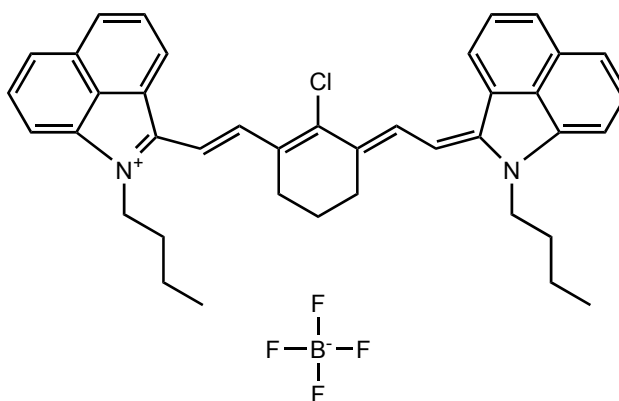


Absorption maximum	Total formula	Molecular weight	CAS #
1014 nm (MeOH)	C ₄₀ H ₄₀ BClF ₄ N ₂	671.03 g mol ⁻¹	913633-67-7

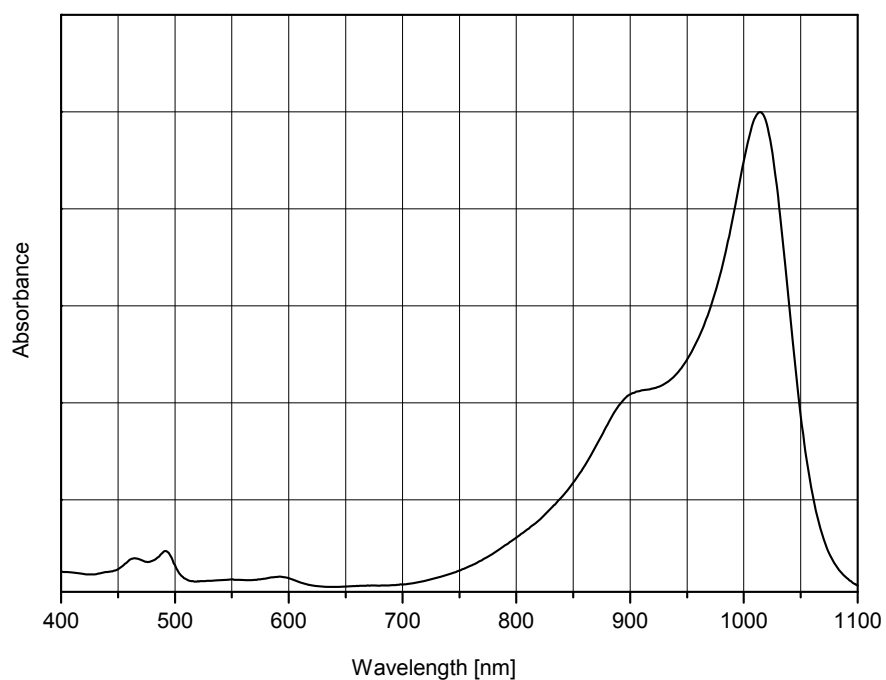
Name

1-Butyl-2-(2-[3-[2-(1-butyl-1H-benzo[cd]indol-2-ylidene)-ethylidene]-2-chloro-cyclohex-1-enyl]-vinyl)-benzo[cd]indolium tetrafluoroborate

Structure



Spectrum

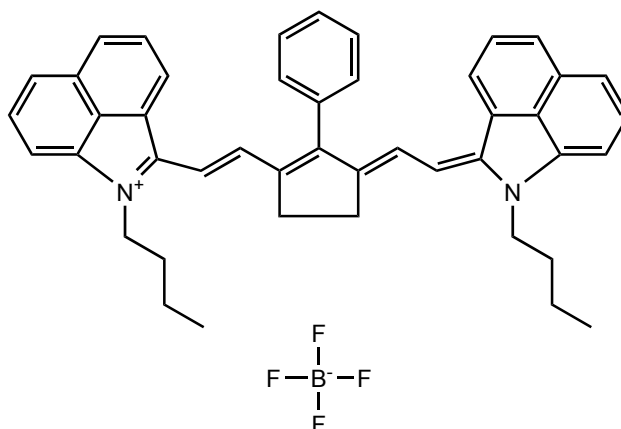


Absorption maximum	Total formula	Molecular weight	CAS #
1024 nm (MeOH)	C ₄₅ H ₄₃ BF ₄ N ₂	698.66 g mol ⁻¹	913627-83-5

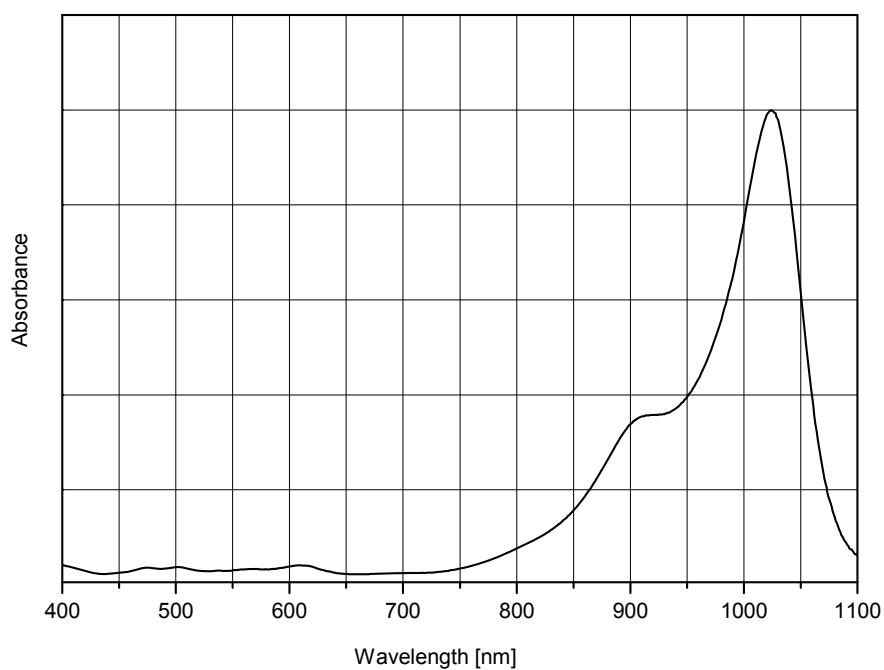
Name

1-Butyl-2-(2-[3-[2-(1-butyl-1H-benzo[cd]indol-2-ylidene)-ethylidene]-2-phenyl-cyclopent-1-enyl]-vinyl)-benzo[cd]indolium tetrafluoroborate

Structure



Spectrum



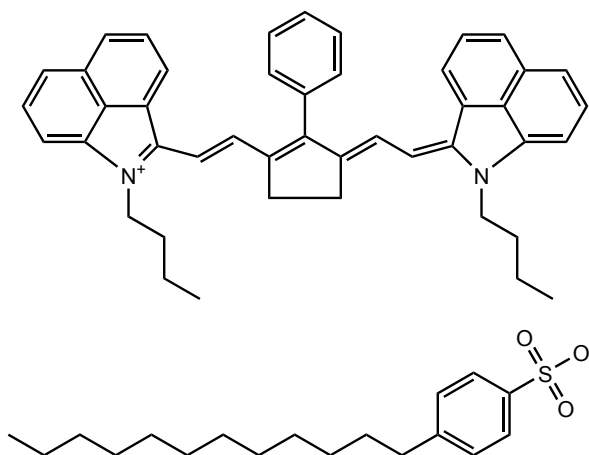
S 2544

Absorption maximum	Total formula	Molecular weight	CAS #
1024 nm (MeOH)	C ₆₃ H ₇₂ N ₂ O ₃ S	937.34 g mol ⁻¹	

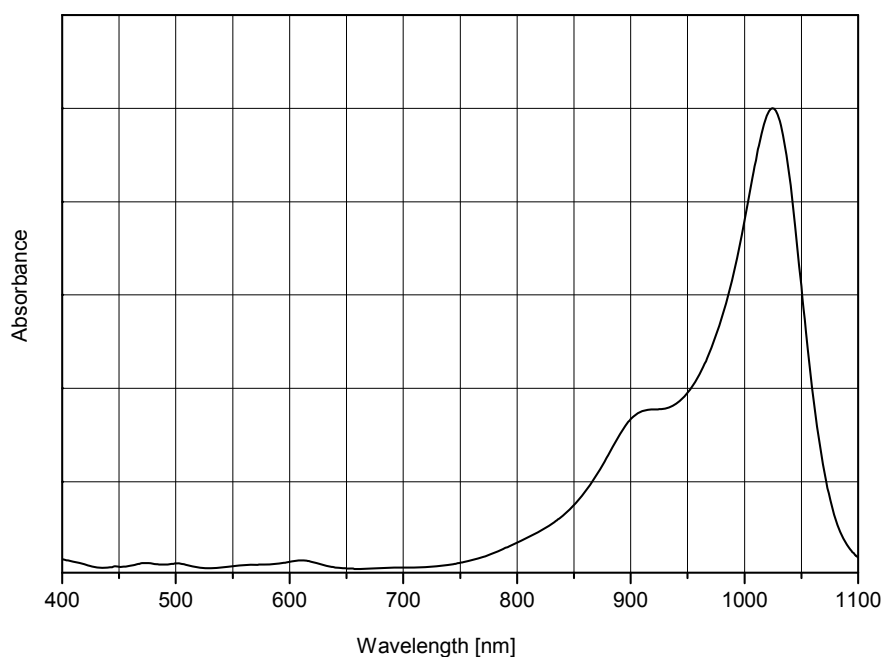
Name

1-Butyl-2-(2-[3-[2-(1-butyl-1H-benzo[cd]indol-2-ylidene)-ethylidene]-2-phenyl-cyclopent-1-enyl]-vinyl)-benzo[cd]indolium 4-dodecylbenzenesulfonate

Structure



Spectrum





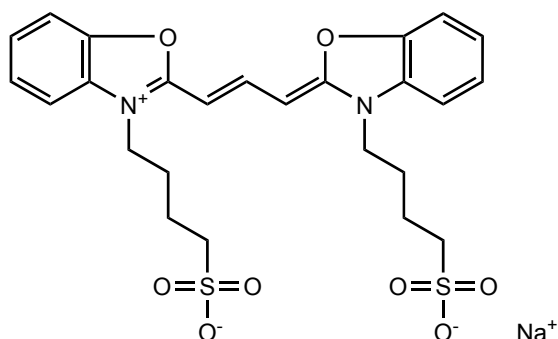
Water Soluble Cyanine Dyes

Absorption maximum	Total formula	Molecular weight	CAS #
485 nm (MeOH)	$C_{25}H_{27}N_2NaO_8S_2$	570.61 g mol ⁻¹	

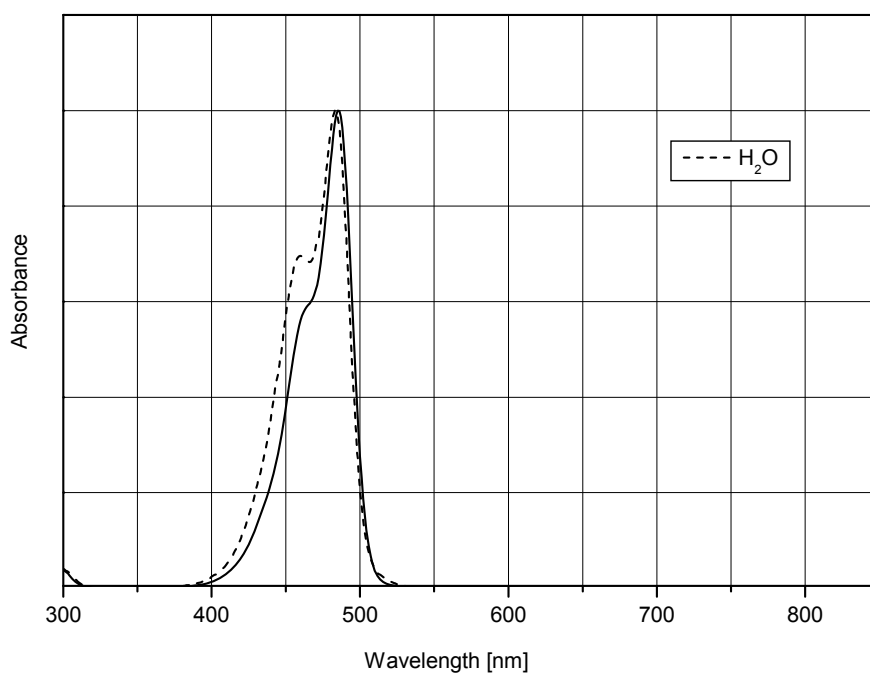
Name

3-(4-Sulfobutyl)-2-[3-[3-(4-sulfobutyl)-3H-benzoxazol-2-ylidene]-propenyl]-benzoxazolium hydroxide, inner salt, sodium salt

Structure



Spectrum

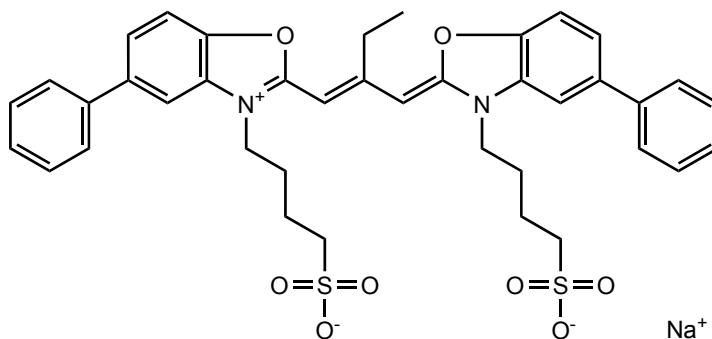


Absorption maximum	Total formula	Molecular weight	CAS #
504 nm (MeOH)	$C_{39}H_{39}N_2NaO_8S_2$	750.86 g mol ⁻¹	35501-76-9

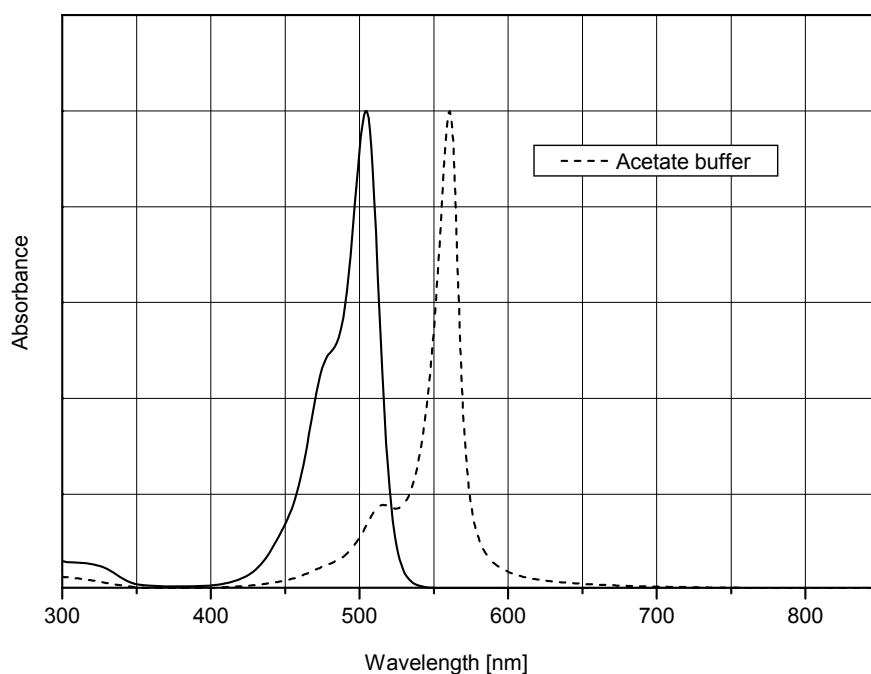
Name

5-Phenyl-2-[2-[[5-phenyl-3-(4-sulfobutyl)-3H-benzoxazol-2-ylidene]-methyl]-but-1-enyl]-3-(4-sulfobutyl)-benzoxazolium hydroxide, inner salt, sodium salt

Structure



Spectrum

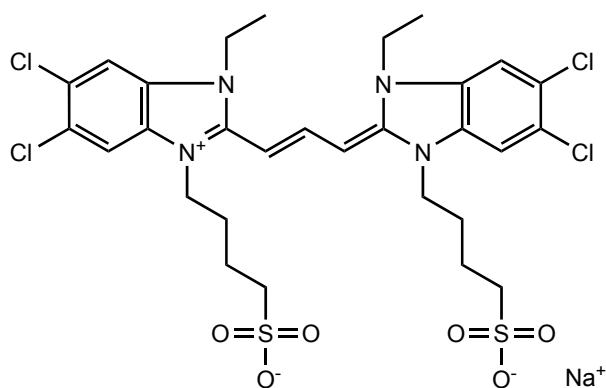


Absorption maximum	Total formula	Molecular weight	CAS #
518 nm (MeOH)	$C_{29}H_{33}Cl_4N_4NaO_6S_2$	$762.53 \text{ g mol}^{-1}$	18462-64-1

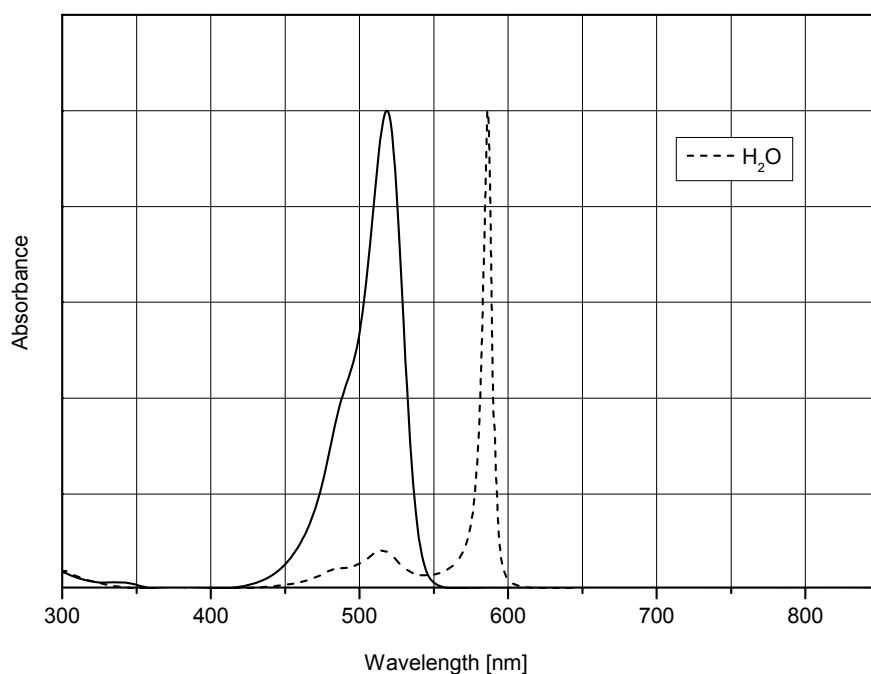
Name

5,6-Dichloro-2-[[5,6-dichloro-1-ethyl-3-(4-sulfobutyl)-benzimidazol-2-ylidene]propenyl]-1-ethyl-3-(4-sulfobutyl)-benzimidazolium hydroxide, inner salt, sodium salt

Structure



Spectrum

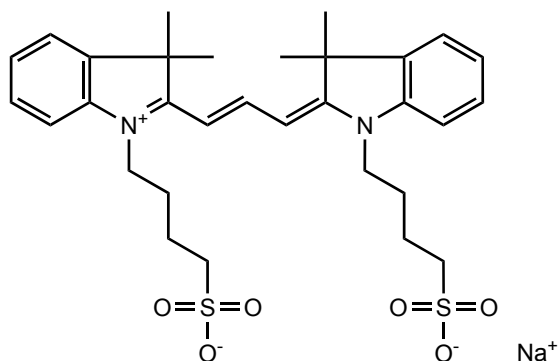


Absorption maximum	Total formula	Molecular weight	CAS #
549 nm (MeOH)	$C_{31}H_{39}N_2NaO_6S_2$	622.77 g mol ⁻¹	120724-84-7

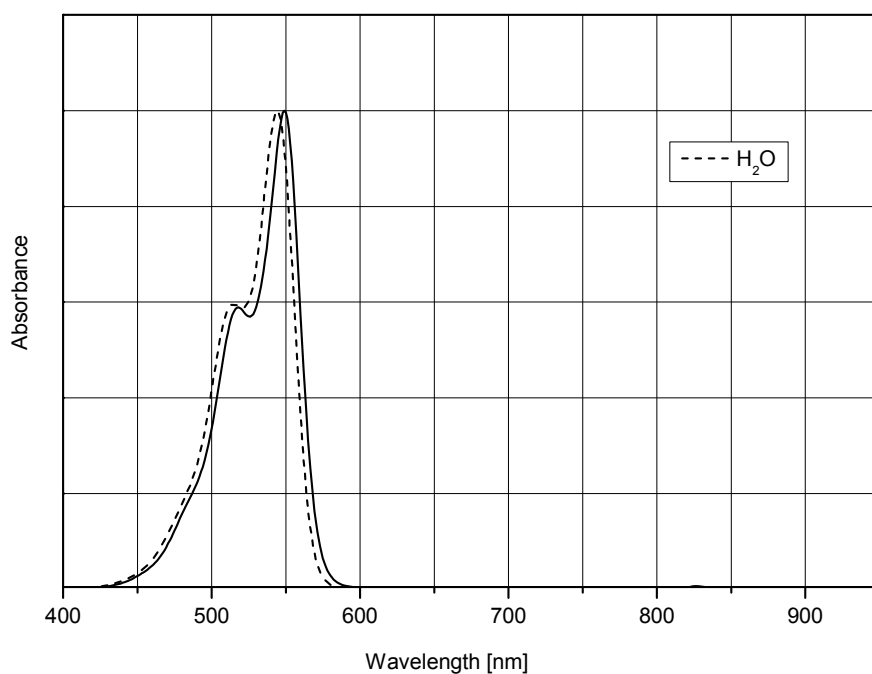
Name

2-[3-[3,3-Dimethyl-1-(4-sulfobutyl)-1,3-dihydro-indol-2-ylidene]-propenyl]-3,3-dimethyl-1-(4-sulfobutyl)-3H-indolium hydroxide, inner salt, sodium salt

Structure



Spectrum

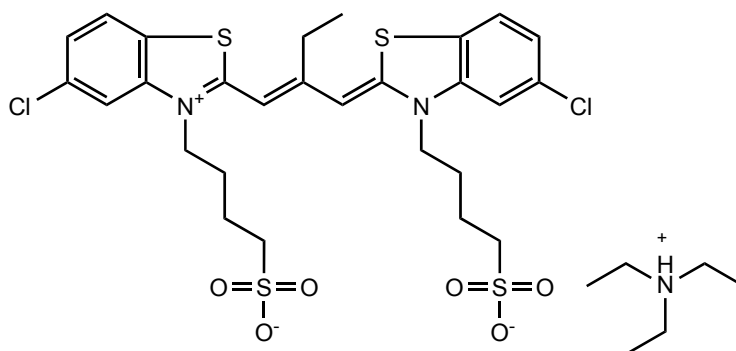


Absorption maximum	Total formula	Molecular weight	CAS #
554 nm (MeOH)	$C_{33}H_{45}Cl_2N_3O_6S_4$	778.88 g mol ⁻¹	63450-48-6

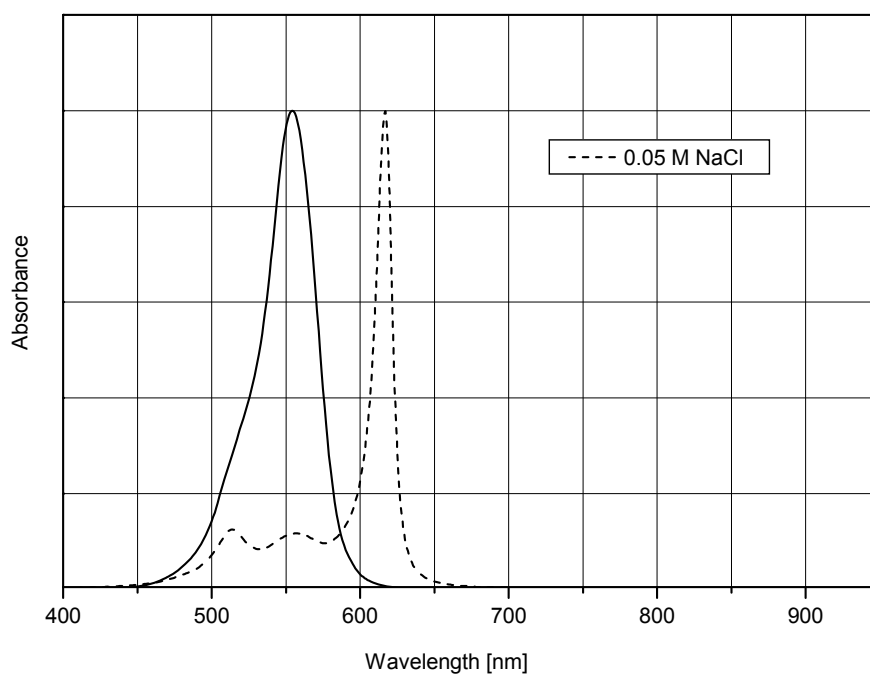
Name

5-Chloro-2-[2-[5-chloro-3-(4-sulfobutyl)-3H-benzothiazol-2-ylidenemethyl]-but-1-enyl]-3-(4-sulfobutyl)-benzothiazol-3-ium hydroxide, inner salt, triethylammonium salt

Structure



Spectrum

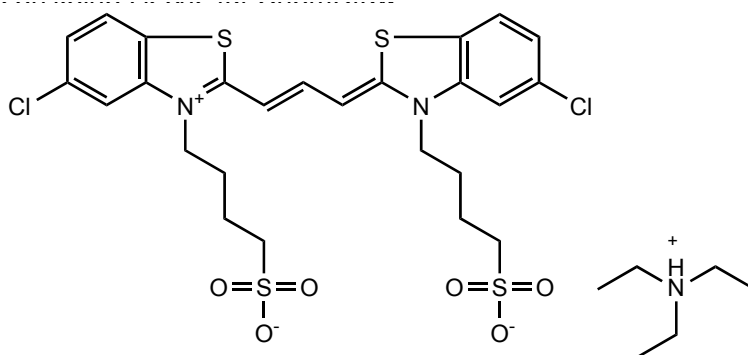


Absorption maximum	Total formula	Molecular weight	CAS #
566 nm (MeOH)	$C_{31}H_{41}Cl_2N_3O_6S_4$	750.83 g mol ⁻¹	259879-20-4

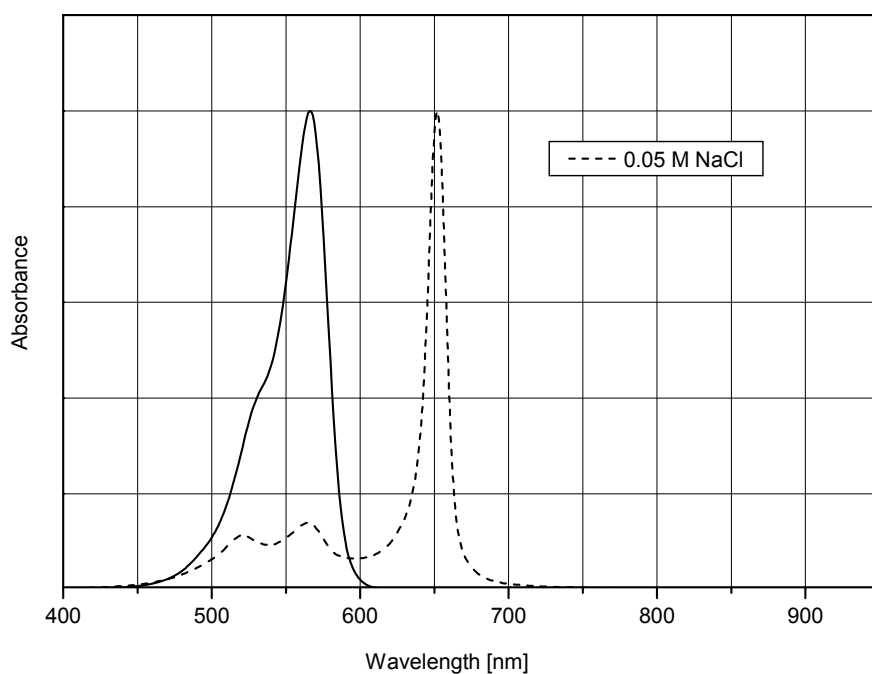
Name

5-Chloro-2-[3-[5-chloro-3-(4-sulfobutyl)-3H-benzothiazol-2-ylidene]propenyl]-3-(4-sulfobutyl)-benzothiazol-3-ium hydroxide, inner salt, triethylammonium salt

Structure



Spectrum

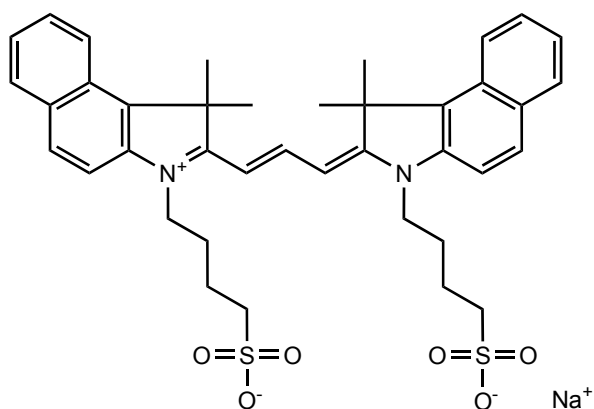


Absorption maximum	Total formula	Molecular weight	CAS #
589 nm (MeOH)	C ₃₉ H ₄₃ N ₂ NaO ₆ S ₂	722.89 g mol ⁻¹	1438644-82-6

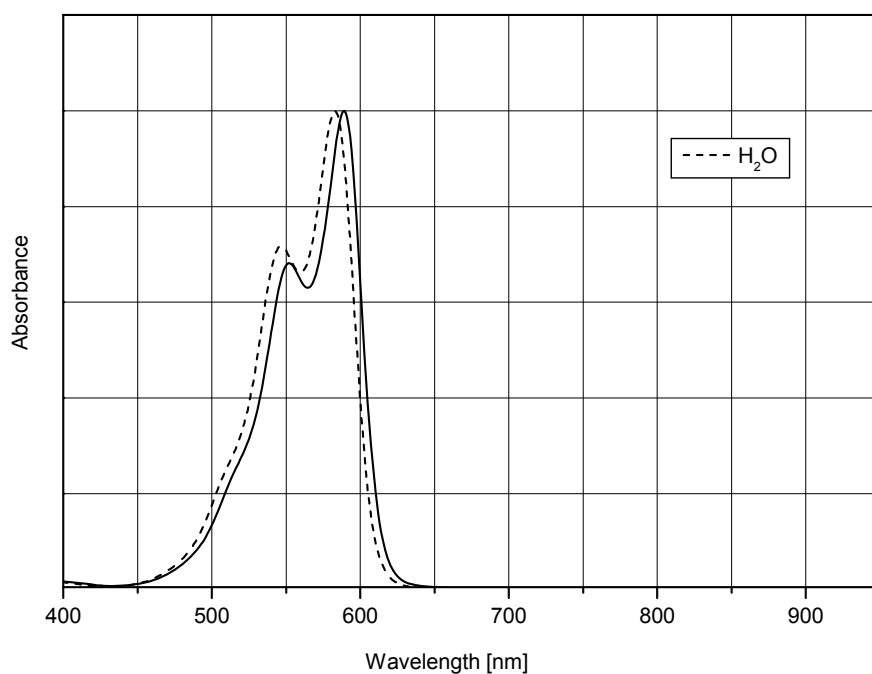
Name

2-[3-[1,1-Dimethyl-3-(4-sulfobutyl)-1,3-dihydro-benzo[e]indol-2-ylidene]-propenyl]-1,1-dimethyl-3-(4-sulfobutyl)-1H-benzo[e]indolium hydroxide, inner salt, sodium salt

Structure



Spectrum

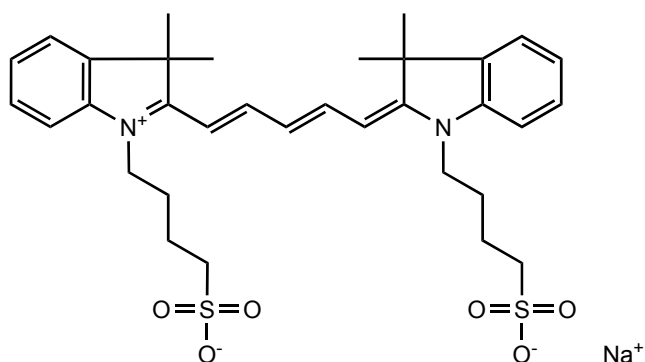


Absorption maximum	Total formula	Molecular weight	CAS #
643 nm (MeOH)	$C_{33}H_{41}N_2NaO_6S_2$	648.81 g mol ⁻¹	120768-44-7

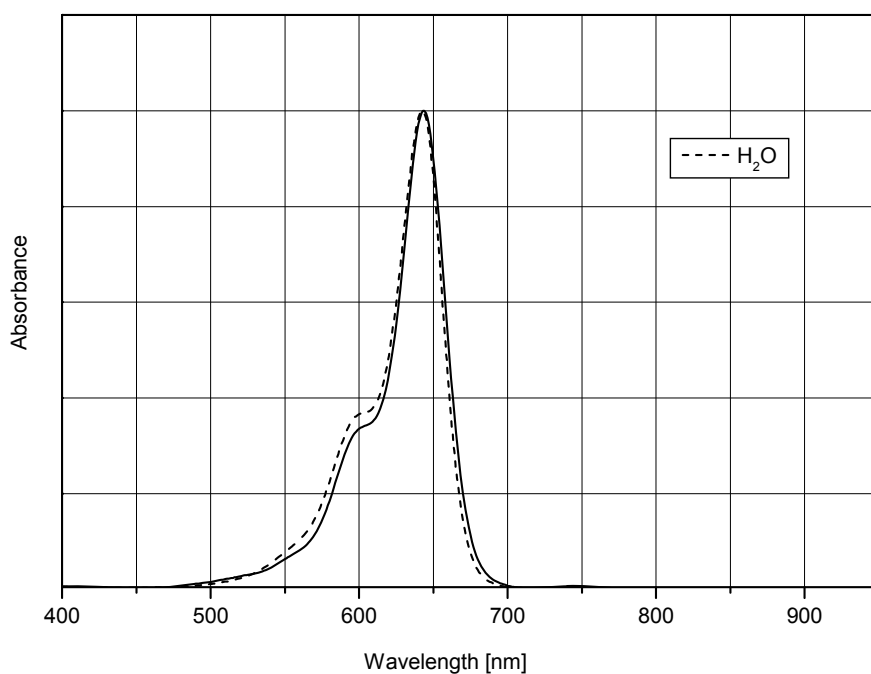
Name

2-[5-[3,3-Dimethyl-1-(4-sulfobutyl)-1,3-dihydro-indol-2-ylidene]-penta-1,3-dienyl]-3,3-dimethyl-1-(4-sulfobutyl)-3H-indolium hydroxide, inner salt, sodium salt

Structure



Spectrum

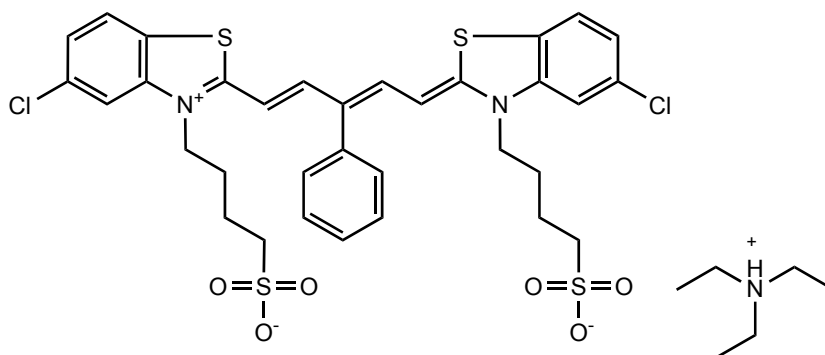


Absorption maximum	Total formula	Molecular weight	CAS #
661 nm (MeOH)	C ₃₉ H ₄₇ Cl ₂ N ₃ O ₆ S ₄	852.96 g mol ⁻¹	

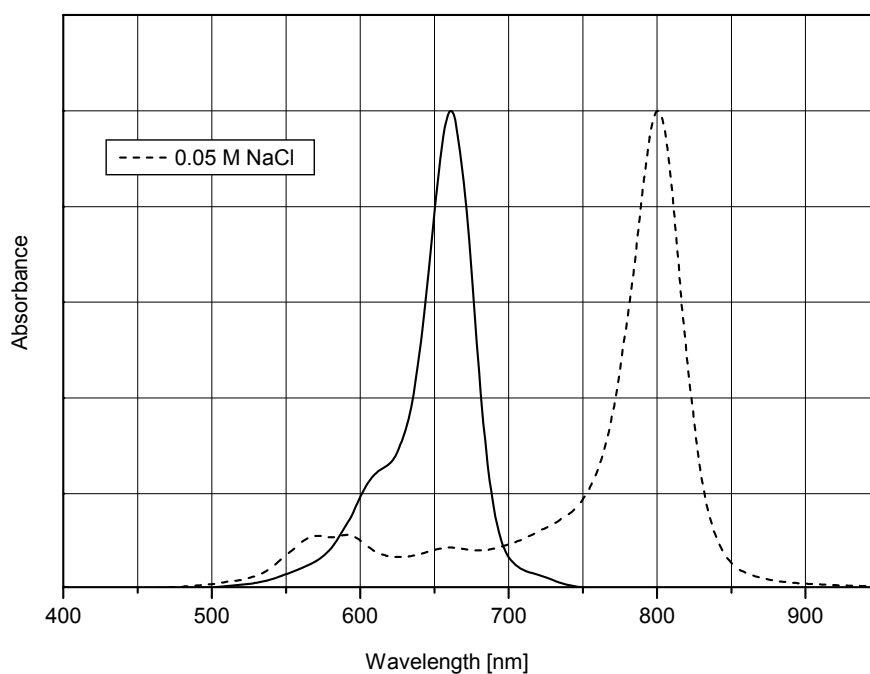
Name

5-Chloro-2-[5-[5-chloro-3-(4-sulfobutyl)-3H-benzothiazol-2-ylidene]-3-phenyl-penta-1,3-dienyl]-3-(4-sulfobutyl)-benzothiazol-3-ium hydroxide, inner salt, triethylammonium salt

Structure



Spectrum



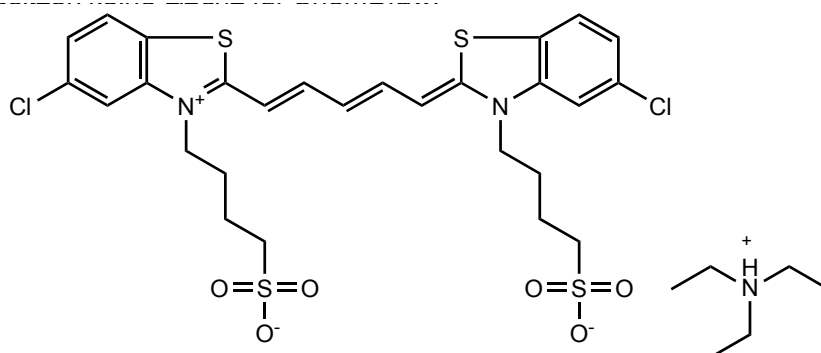
S 2440

Absorption maximum	Total formula	Molecular weight	CAS #
662 nm (MeOH)	$C_{33}H_{43}Cl_2N_3O_6S_4$	776.87 g mol ⁻¹	

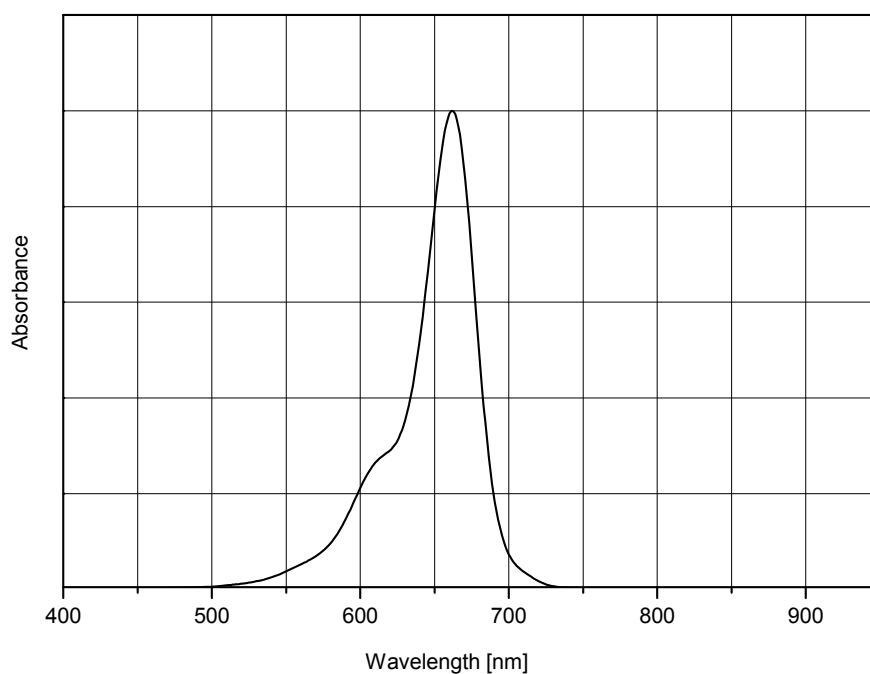
Name

5-Chloro-2-[5-[5-chloro-3-(4-sulfobutyl)-3H-benzothiazol-2-ylidene]penta-1,3-dienyl]-3-(4-sulfobutyl)-benzothiazol-3-ium hydroxide, inner salt, triethylammonium salt

Structure



Spectrum

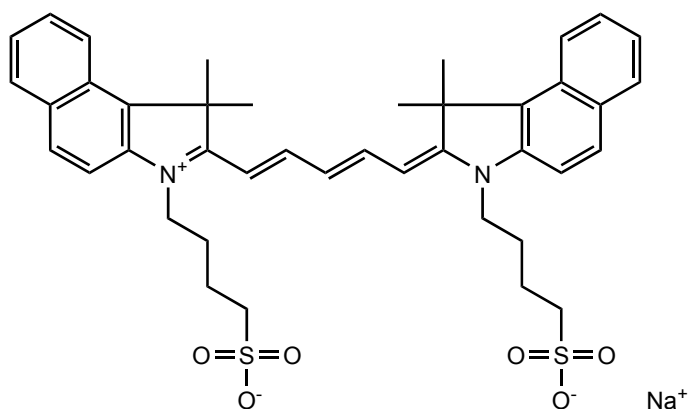


Absorption maximum	Total formula	Molecular weight	CAS #
681 nm (MeOH)	$C_{41}H_{45}N_2NaO_6S_2$	748.93 g mol ⁻¹	64285-36-5

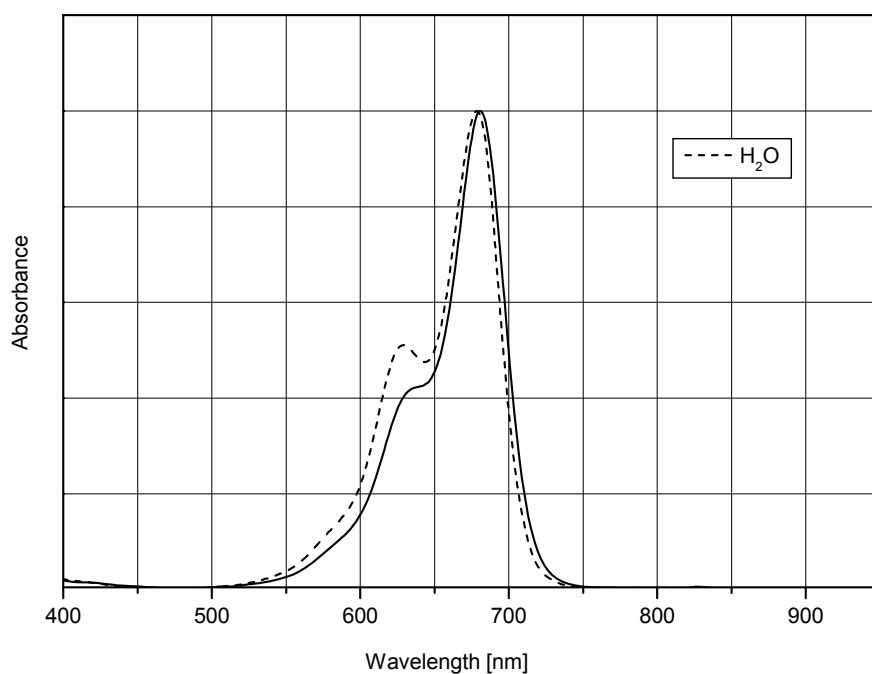
Name

2-[5-[1,1-Dimethyl-3-(4-sulfobutyl)-1,3-dihydro-benzo[e]indol-2-ylidene]-penta-1,3-dienyl]-1,1-dimethyl-3-(4-sulfobutyl)-1H-benzo[e]indolium hydroxide, inner salt, sodium salt

Structure



Spectrum

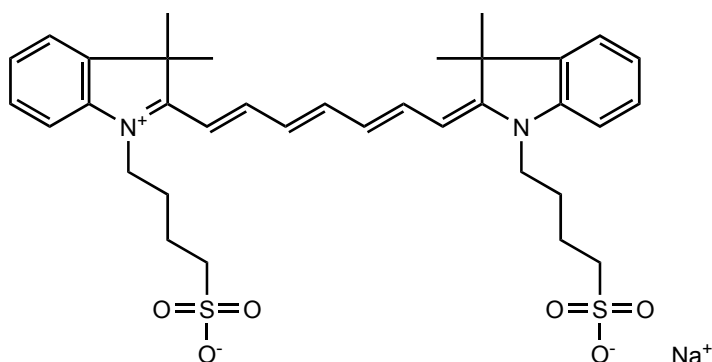


Absorption maximum	Total formula	Molecular weight	CAS #
747 nm (MeOH)	$C_{35}H_{43}N_2NaO_6S_2$	674.85 g mol ⁻¹	120724-85-8

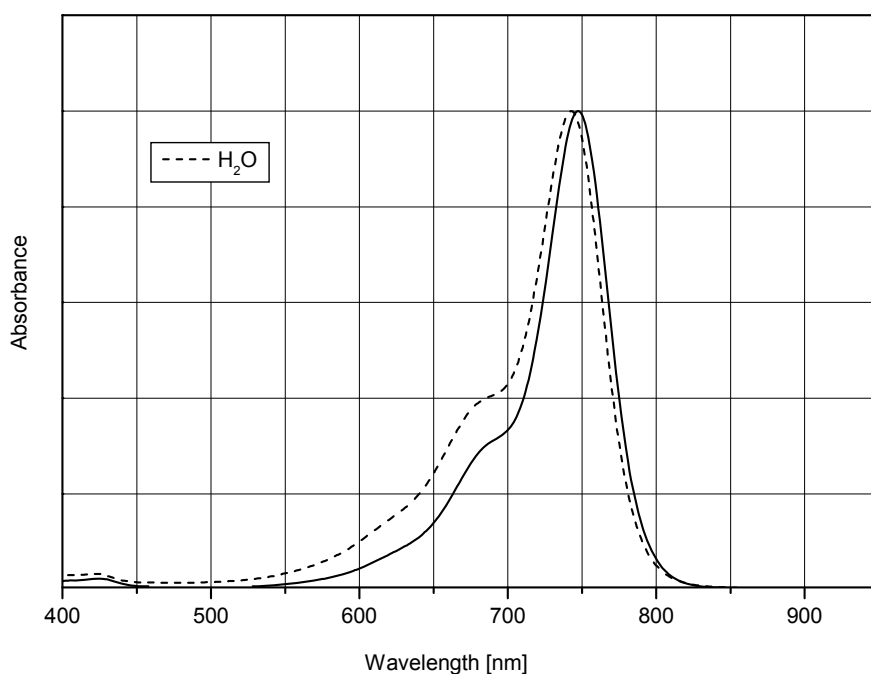
Name

2-[7-[1,3-Dihydro-3,3-dimethyl-1-(4-sulfobutyl)-2H-indol-2-ylidene]-hepta-1,3,5-trienyl]-3,3-dimethyl-1-(4-sulfobutyl)-3H-indolium hydroxide, inner salt, sodium salt

Structure



Spectrum

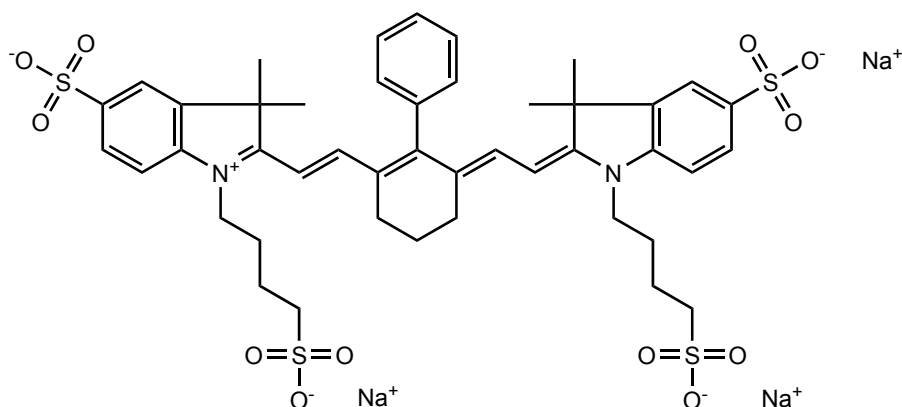


Absorption maximum	Total formula	Molecular weight	CAS #
768 nm (MeOH)	$C_{44}H_{49}N_2Na_3O_{12}S_4$	995.09 g mol ⁻¹	897625-36-4

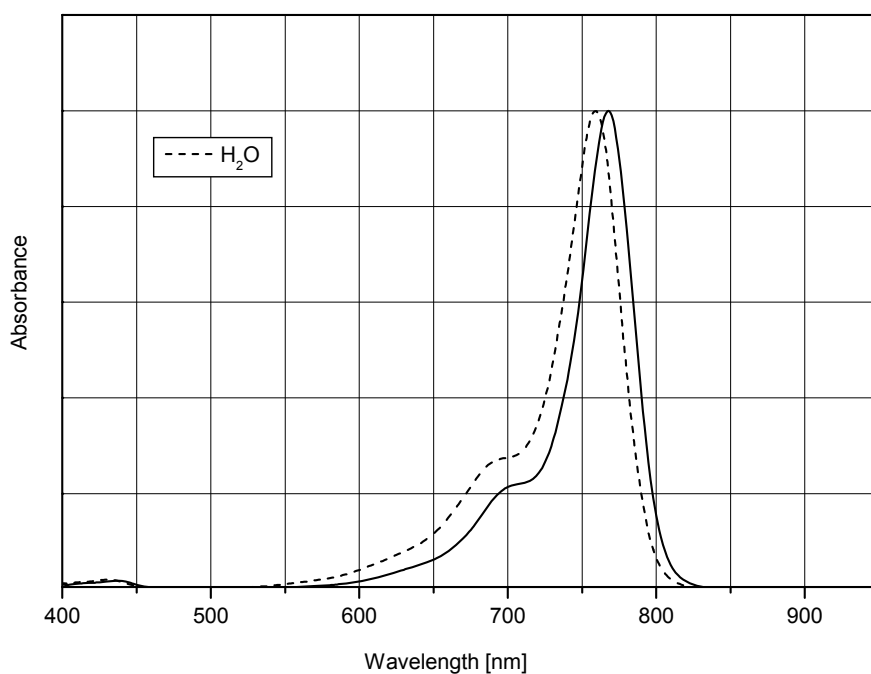
Name

2-[2-(3-[2-[3,3-Dimethyl-5-sulfo-1-(4-sulfobutyl)-1,3-dihydro-indol-2-ylidene]-ethylidene]-2-phenyl-cyclohex-1-enyl)-vinyl]-3,3-dimethyl-5-sulfo-1-(4-sulfobutyl)-3H-indolium hydroxide, inner salt, trisodium salt

Structure



Spectrum

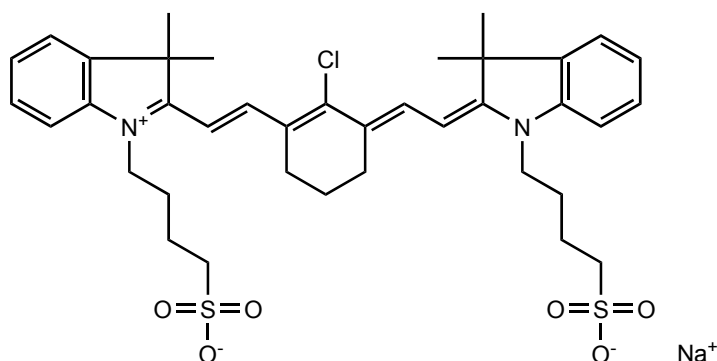


Absorption maximum	Total formula	Molecular weight	CAS #
783 nm (MeOH)	$C_{38}H_{46}ClN_2NaO_6S_2$	749.36 g mol ⁻¹	115970-66-6

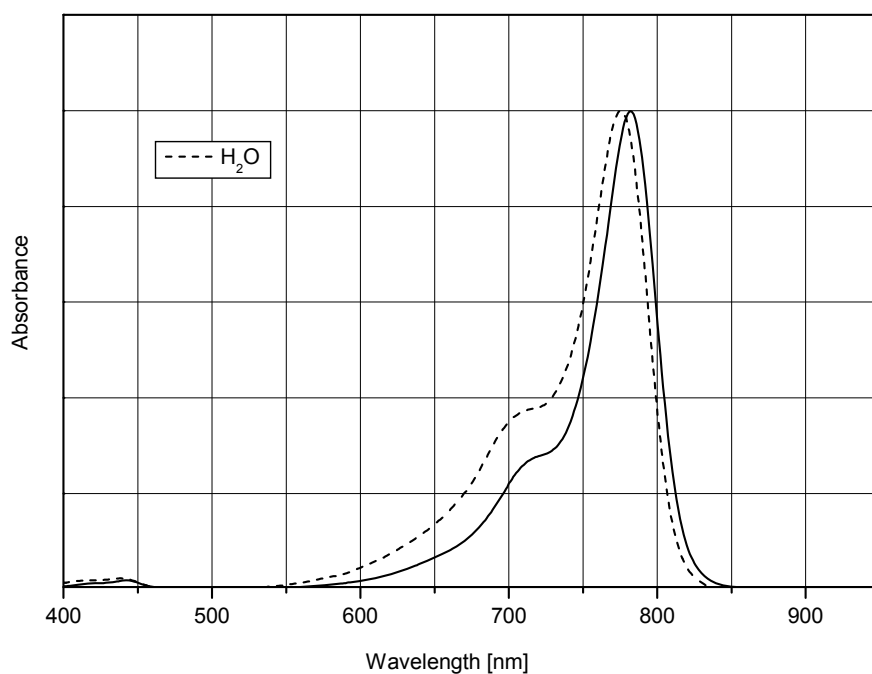
Name

2-[2-[2-Chloro-3-[2-[1,3-dihydro-3,3-dimethyl-1-(4-sulfobutyl)-2H-indol-2-ylidene]-ethylidene]-1-cyclohexen-1-yl]-ethenyl]-3,3-dimethyl-1-(4-sulfobutyl)-3H-indolium hydroxide, inner salt, sodium salt

Structure



Spectrum

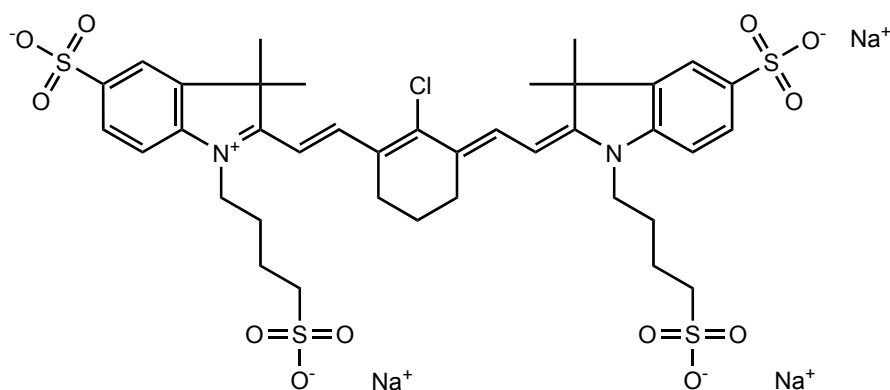


Absorption maximum	Total formula	Molecular weight	CAS #
789 nm (MeOH)	$C_{38}H_{44}ClN_2Na_3O_{12}S_4$	953.44 g mol ⁻¹	162093-39-2

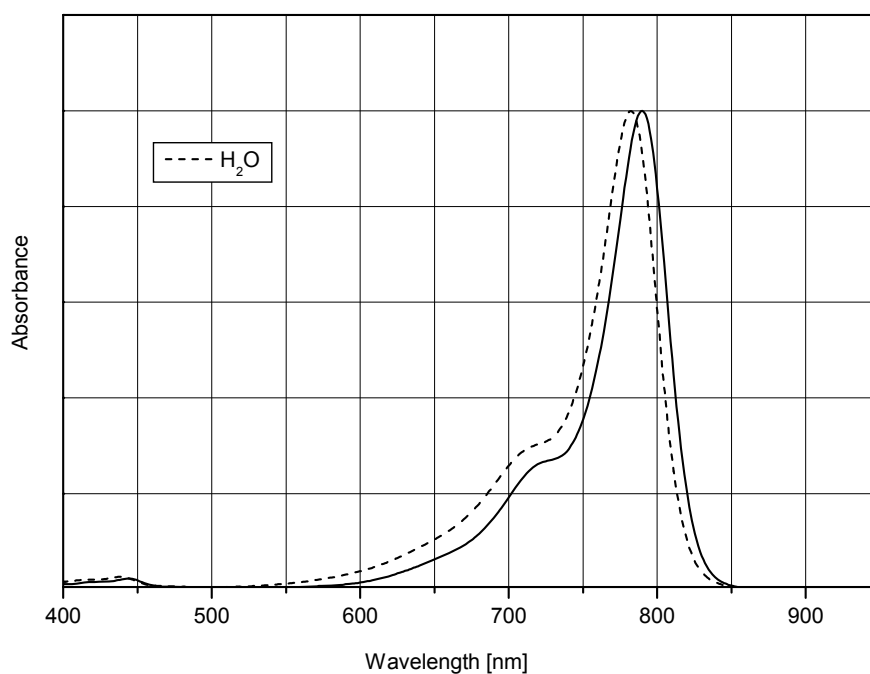
Name

3,3-Dimethyl-2-[2-[2-chloro-3-[2-[1,3-dihydro-3,3-dimethyl-5-sulfo-1-(4-sulfobutyl)-2H-indol-2-ylidene]-ethylidene]-1-cyclohexen-1-yl]-ethenyl]-5-sulfo-1-(4-sulfobutyl)-3H-indolium hydroxide, innersalt, trisodium salt

Structure



Spectrum



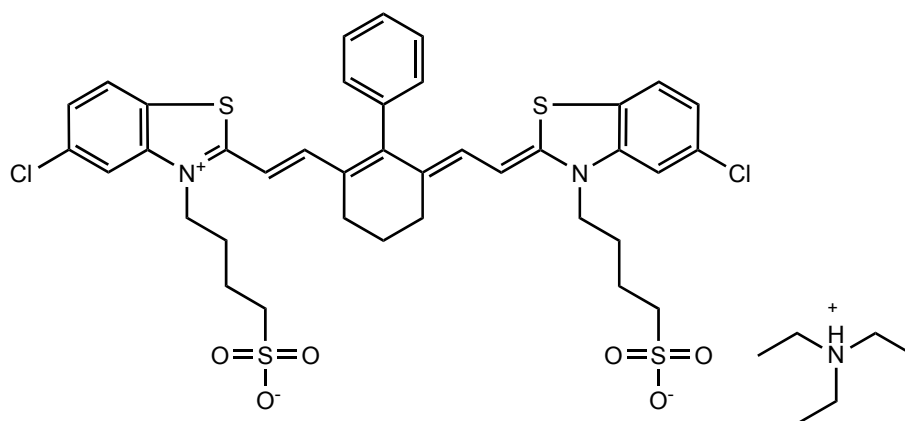
S 2433

Absorption maximum	Total formula	Molecular weight	CAS #
794 nm (MeOH)	C ₄₄ H ₅₃ Cl ₂ N ₃ O ₆ S ₄	919.07 g mol ⁻¹	

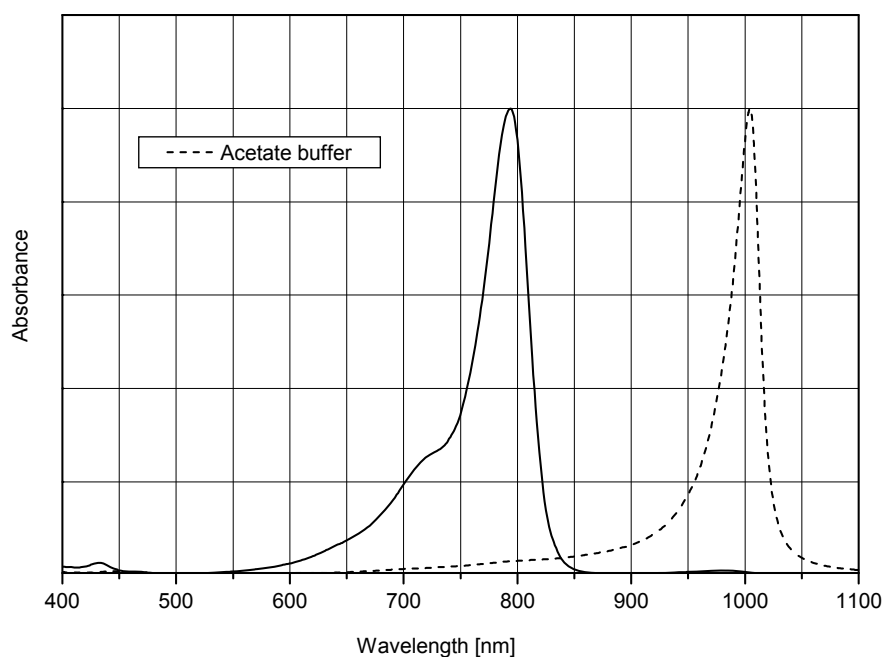
Name

5-Chloro-2-[2-(3-[2-[5-chloro-3-(4-sulfobutyl)-3H-benzothiazol-2-ylidene]-ethylidene]-2-phenyl-cyclohex-1-enyl)-vinyl]-3-(4-sulfobutyl)-benzothiazol-3-ium hydroxide, inner salt, triethylammonium salt

Structure



Spectrum

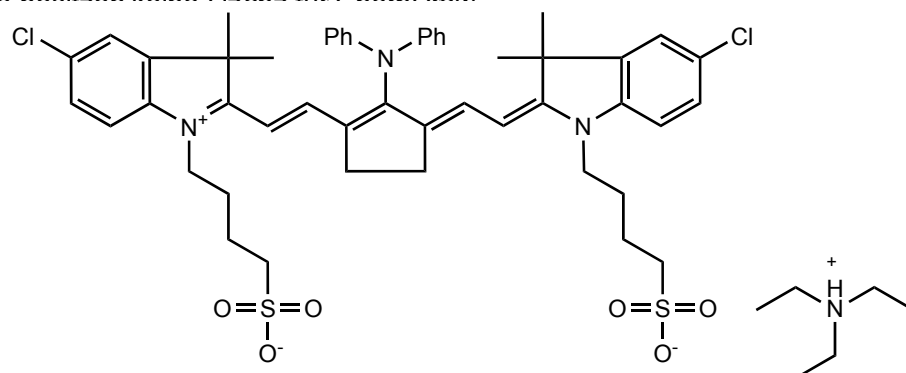


Absorption maximum	Total formula	Molecular weight	CAS #
799 nm (MeOH)	C ₅₅ H ₆₈ Cl ₂ N ₄ O ₆ S ₂	1016.19 g mol ⁻¹	835900-90-8

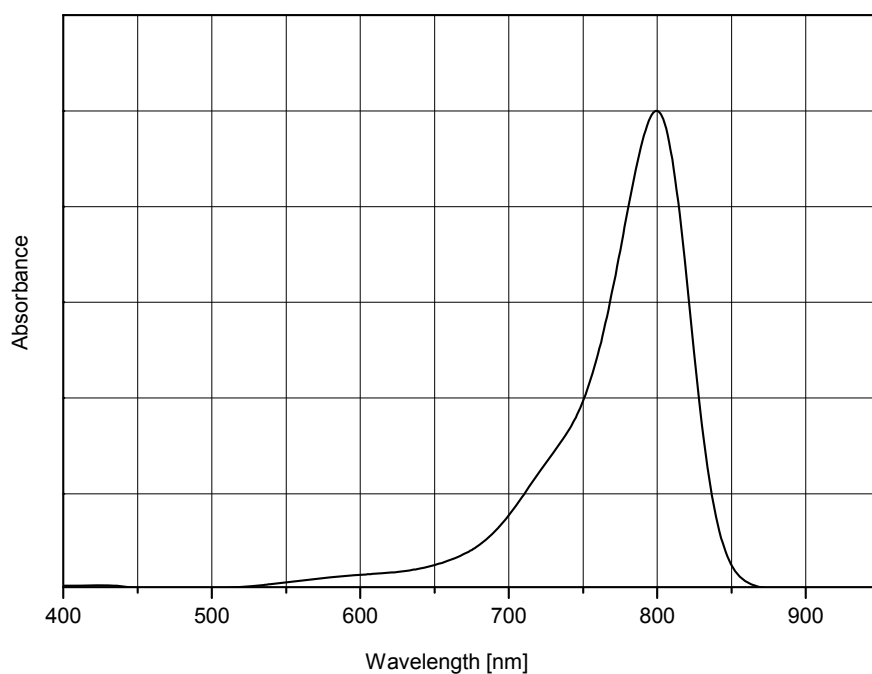
Name

5-Chloro-2-[2-(3-[2-[5-chloro-3,3-dimethyl-1-(4-sulfobutyl)-1,3-dihydro-indol-2-ylidene]-ethylidene]-2-diphenylamino-cyclopent-1-enyl)-vinyl]-3,3-dimethyl-1-(4-sulfobutyl)-3H-indolium hydroxide, inner salt, triethylammonium salt

Structure



Spectrum

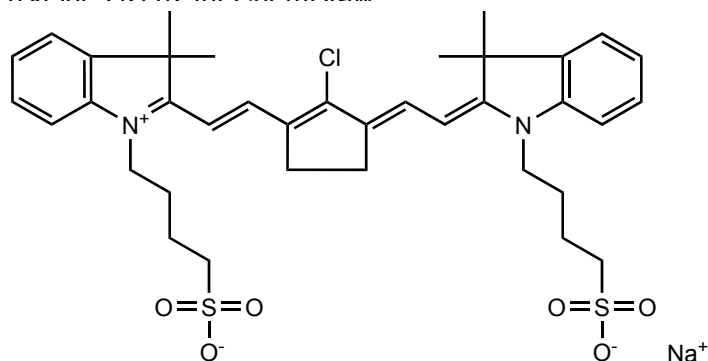


Absorption maximum	Total formula	Molecular weight	CAS #
806 nm (MeOH)	$C_{37}H_{44}ClN_2NaO_6S_2$	735.33 g mol ⁻¹	757960-10-4

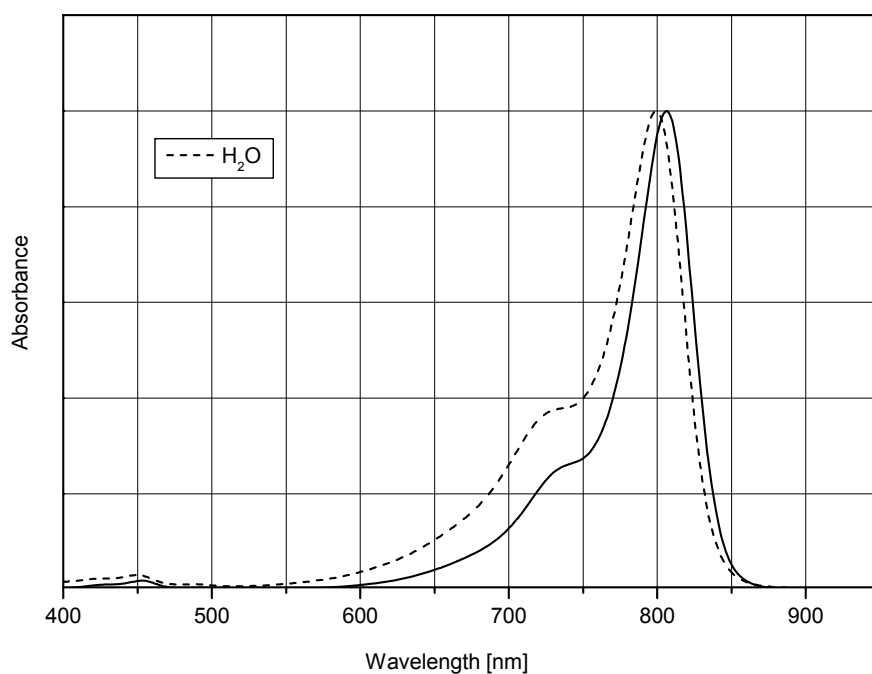
Name

2-[2-[2-Chloro-3-[2-[1,3-dihydro-3,3-dimethyl-1-(4-sulfobutyl)-2H-indol-2-ylidene]-ethylidene]-1-cyclopenten-1-yl]-ethenyl]-3,3-dimethyl-1-(4-sulfobutyl)-3H-indolium hydroxide, inner salt, sodium salt

Structure



Spectrum

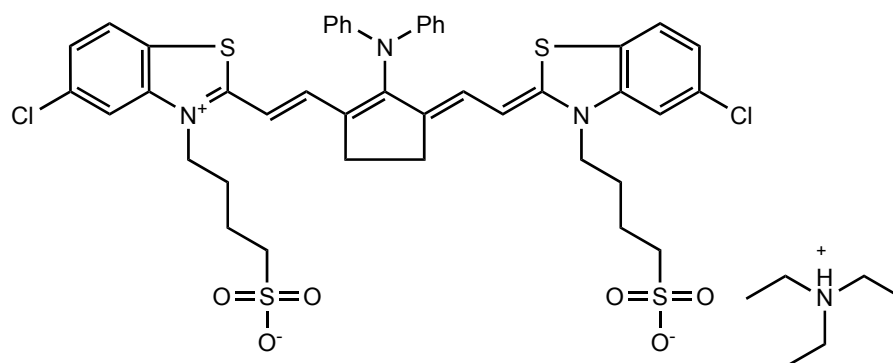


Absorption maximum	Total formula	Molecular weight	CAS #
808 nm (MeOH)	C ₄₉ H ₅₆ Cl ₂ N ₄ O ₆ S ₄	996.15 g mol ⁻¹	1962170-89-3

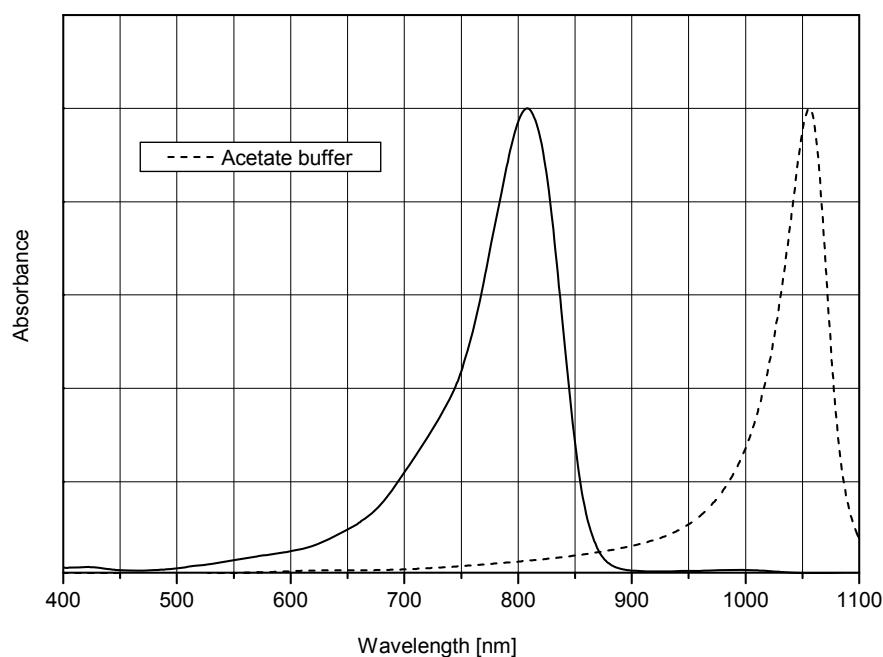
Name

5-Chloro-2-[2-(3-[2-[5-chloro-3-(4-sulfobutyl)-3H-benzothiazol-2-ylidene]-ethylidene]-2-diphenylaminocyclopent-1-enyl)-vinyl]-3-(4-sulfobutyl)-benzothiazolium hydroxide, inner salt, triethylammonium salt

Structure



Spectrum

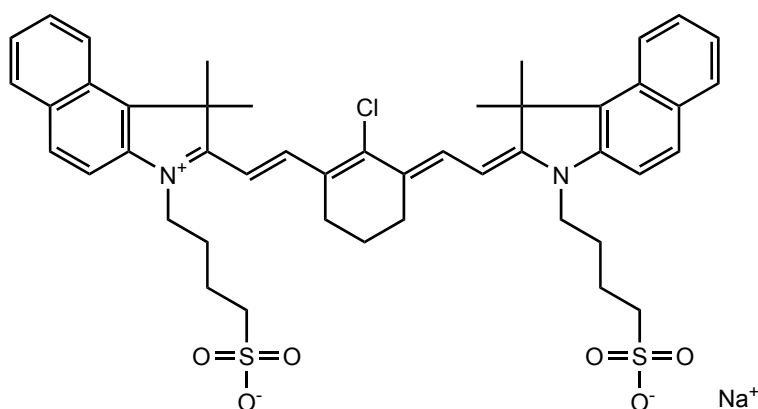


Absorption maximum	Total formula	Molecular weight	CAS #
820 nm (MeOH)	$C_{46}H_{50}ClN_2NaO_6S_2$	849.48 g mol ⁻¹	172616-80-7

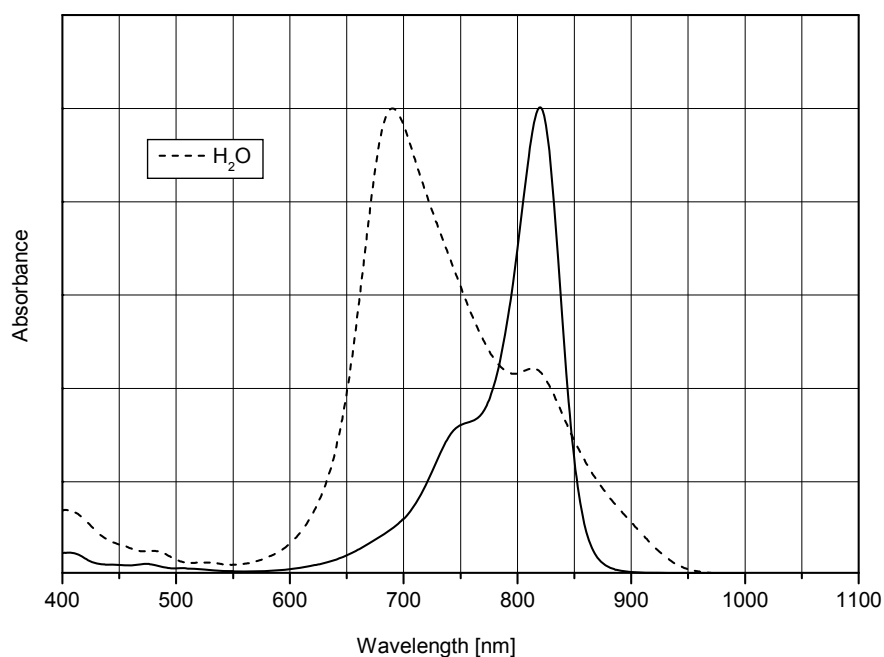
Name

2-[2-[2-Chloro-3-[[1,3-dihydro-1,1-dimethyl-3-(4-sulfobutyl)-2H-benzo[e]indol-2-ylidene]-ethylidene]-1-cyclohexen-1-yl]-ethenyl]-1,1-dimethyl-3-(4-sulfobutyl)-1H-benzo[e]indolium hydroxide, inner salt, sodium salt

Structure



Spectrum

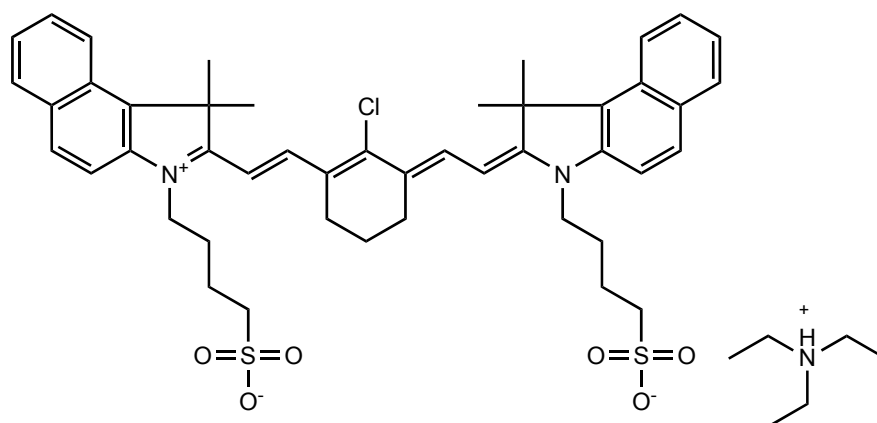


Absorption maximum	Total formula	Molecular weight	CAS #
820 nm (MeOH)	$C_{52}H_{66}ClN_3O_6S_2$	928.69 g mol ⁻¹	289893-03-4

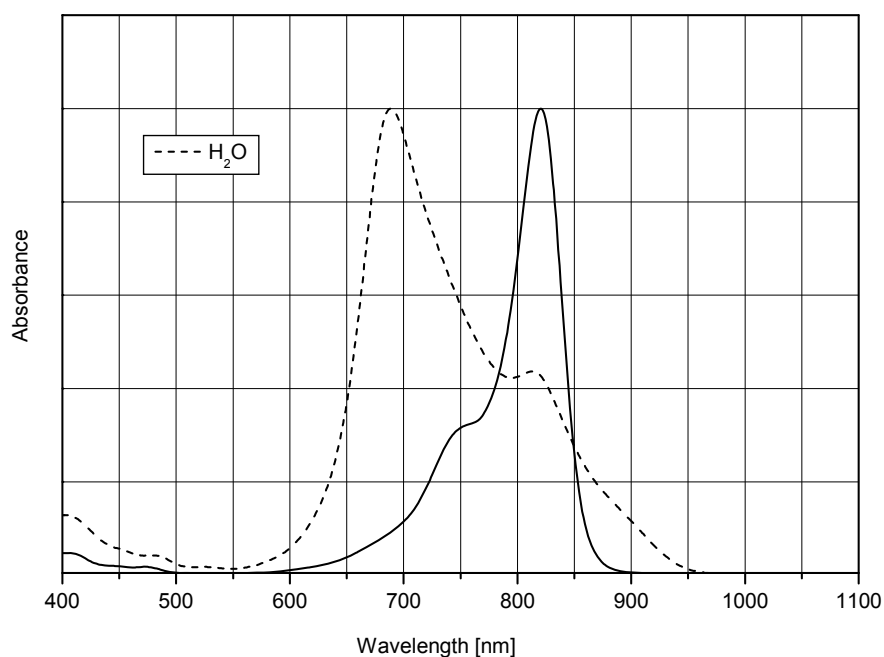
Name

2-[2-[2-Chloro-3-[[1,3-dihydro-1,1-dimethyl-3-(4-sulfobutyl)-2H-benzo[e]indol-2-ylidene]-ethylidene]-1-cyclohexen-1-yl]-ethenyl]-1,1-dimethyl-3-(4-sulfobutyl)-1H-benzo[e]indolium hydroxide, inner salt, triethylammonium salt

Structure



Spectrum

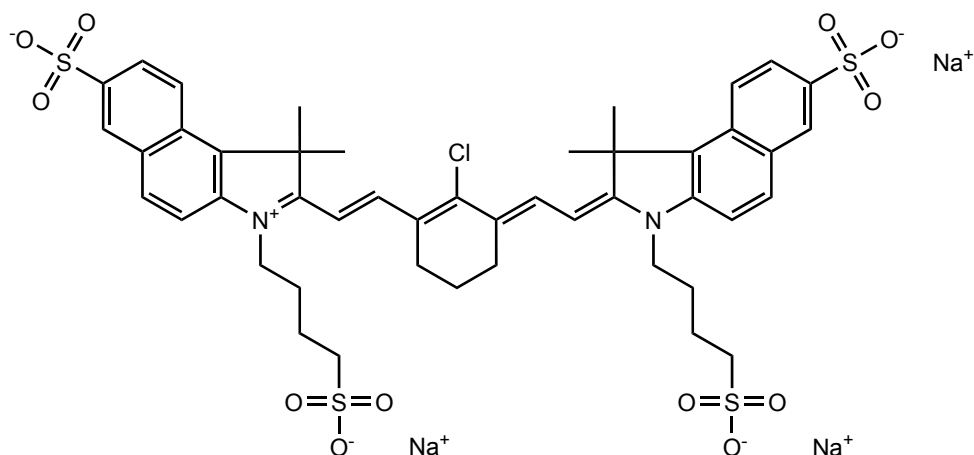


Absorption maximum	Total formula	Molecular weight	CAS #
823 nm (MeOH)	$C_{46}H_{48}ClN_2Na_3O_{12}S_4$	1053.56 g mol ⁻¹	162093-44-9

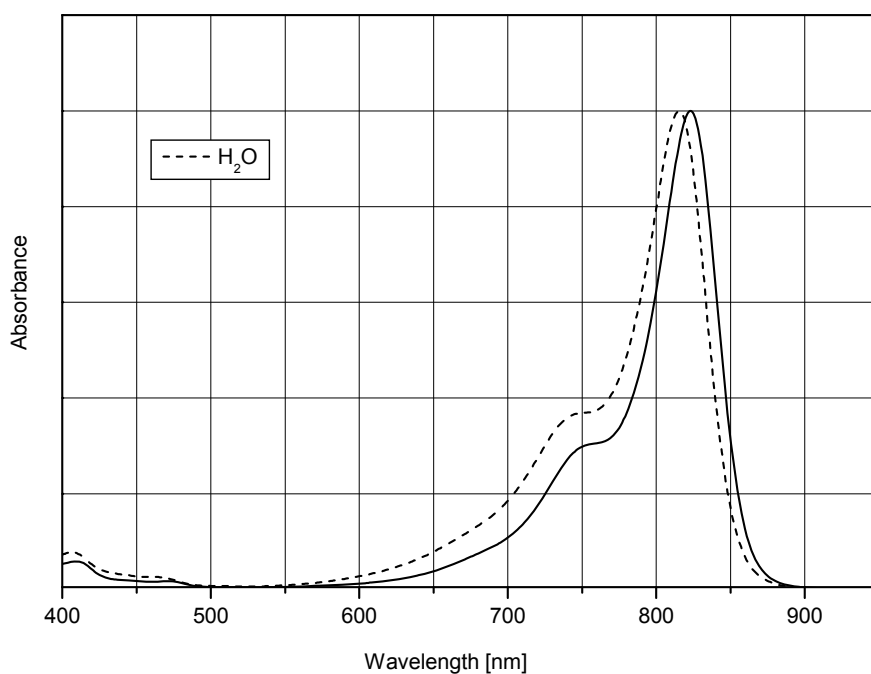
Name

2-[2-(2-Chloro-3-[2-[1,1-dimethyl-7-sulfo-3-(4-sulfobutyl)-1,3-dihydro-benzo[e]indol-2-ylidene]-ethylidene]-cyclohex-1-enyl)-vinyl]-1,1-dimethyl-7-sulfo-3-(4-sulfobutyl)-1H-benzo[e]indolium hydroxide, inner salt, trisodium salt

Structure



Spectrum

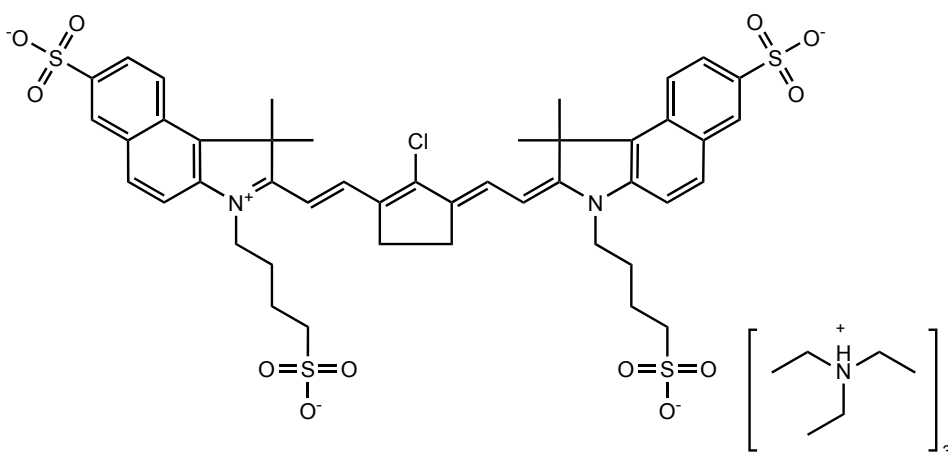


Absorption maximum	Total formula	Molecular weight	CAS #
848 nm (MeOH)	C ₆₃ H ₉₄ ClN ₅ O ₁₂ S ₄	1277.16 g mol ⁻¹	

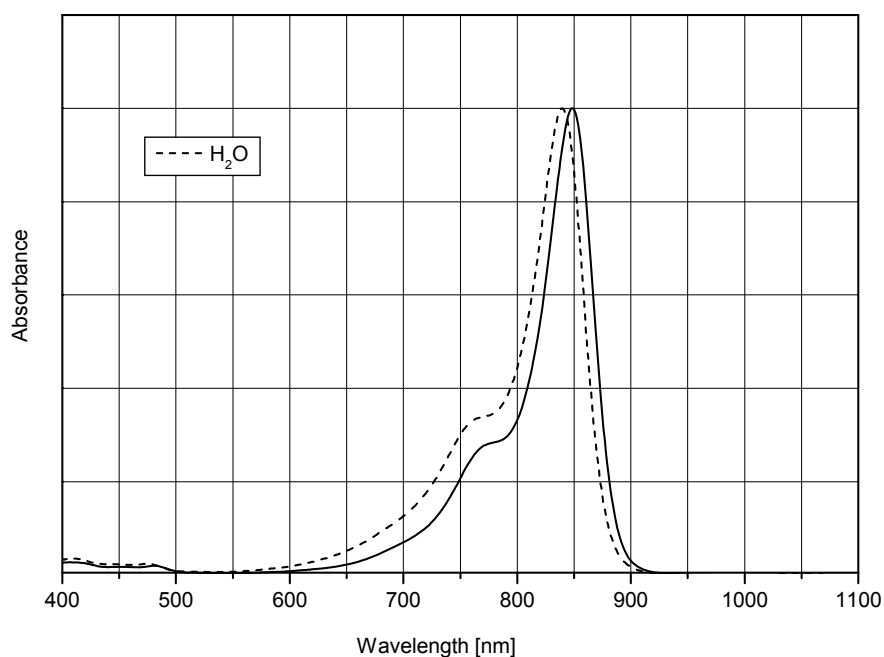
Name

2-[2-(2-Chloro-3-[2-[1,1-dimethyl-7-sulfo-3-(4-sulfobutyl)-1,3-dihydro-benzo[e]indol-2-ylidene]-ethylidene]-cyclopent-1-enyl)-vinyl]-1,1-dimethyl-7-sulfo-3-(4-sulfobutyl)-1H-benzo[e]indolium hydroxide, inner salt, triethylammonium salt

Structure



Spectrum





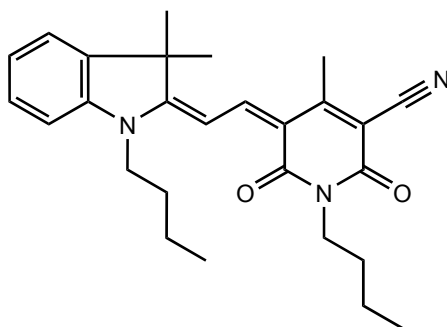
Miscellaneous Dyes

Absorption maximum	Total formula	Molecular weight	CAS #
519 nm (MeOH)	C ₂₇ H ₃₃ N ₃ O ₂	431.58 g mol ⁻¹	233748-97-5

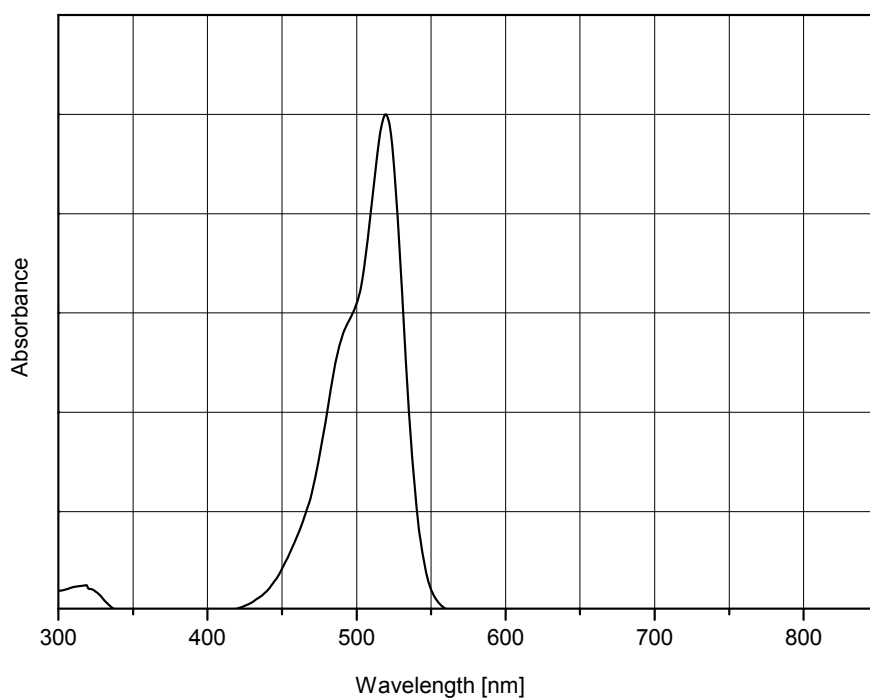
Name

1-Butyl-5-[2-(1-butyl-3,3-dimethyl-1,3-dihydro-indol-2-ylidene)-ethylidene]-4-methyl-2,6-dioxo-1,2,5,6-tetrahydro-pyridine-3-carbonitrile

Structure



Spectrum

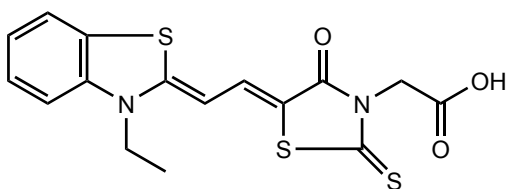


Absorption maximum	Total formula	Molecular weight	CAS #
522 nm (MeOH)	C ₁₆ H ₁₄ N ₂ O ₃ S ₃	378.48 g mol ⁻¹	25962-03-2

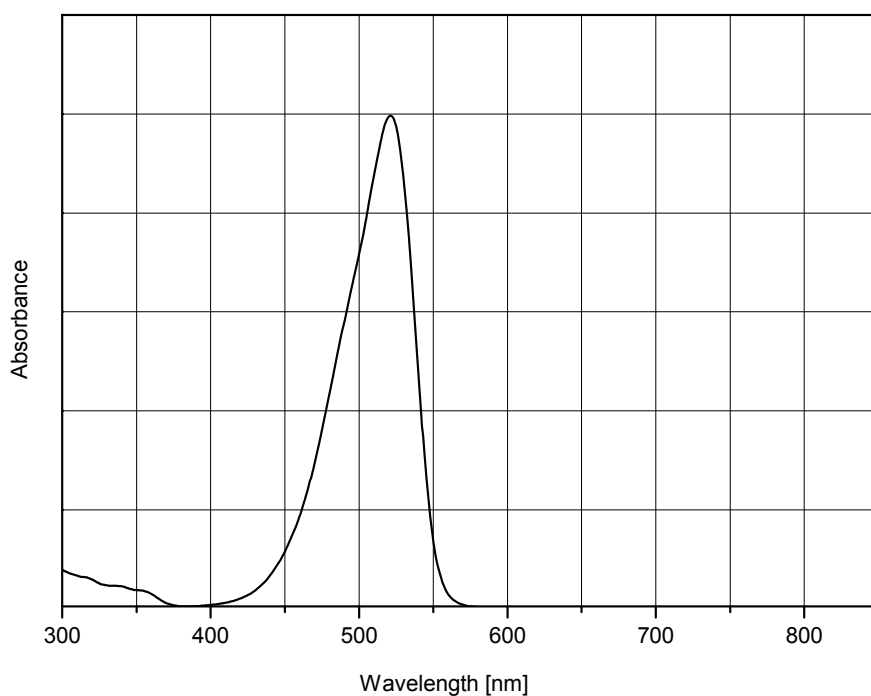
Name

[5-[2-(3-Ethyl-3H-benzothiazol-2-ylidene)-ethylidene]-4-oxo-2-thioxo-thiazolidin-3-yl]-acetic acid

Structure



Spectrum

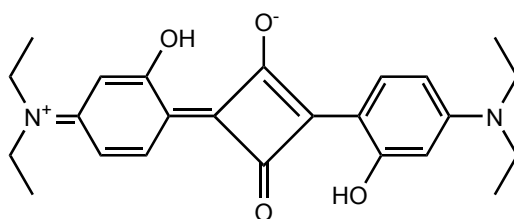


Absorption maximum	Total formula	Molecular weight	CAS #
640 nm (MeOH)	C ₂₄ H ₂₈ N ₂ O ₄	408.50 g mol ⁻¹	68842-66-0

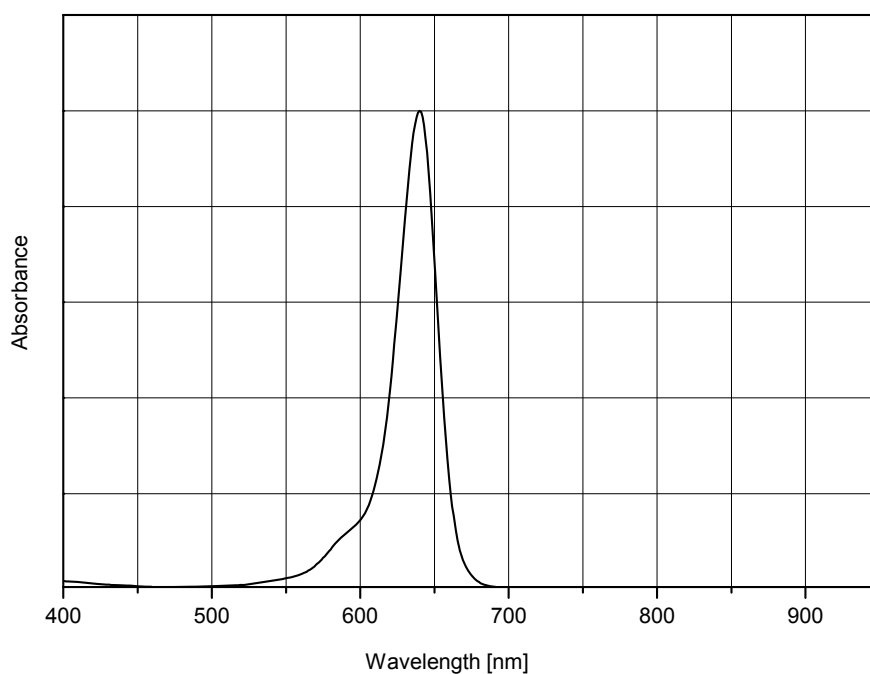
Name

1,3-Bis[4-(diethylamino)-2-hydroxyphenyl]-2,4-dihydroxy-cyclobutenediylum bis(inner salt)

Structure



Spectrum

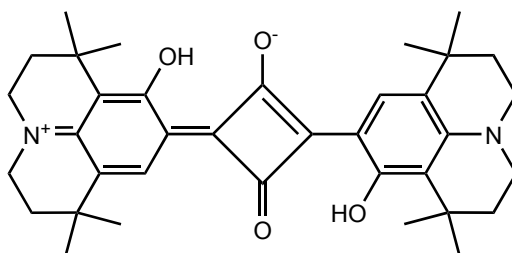


Absorption maximum	Total formula	Molecular weight	CAS #
668 nm (MeOH)	C ₃₆ H ₄₄ N ₂ O ₄	568.76 g mol ⁻¹	358727-55-6

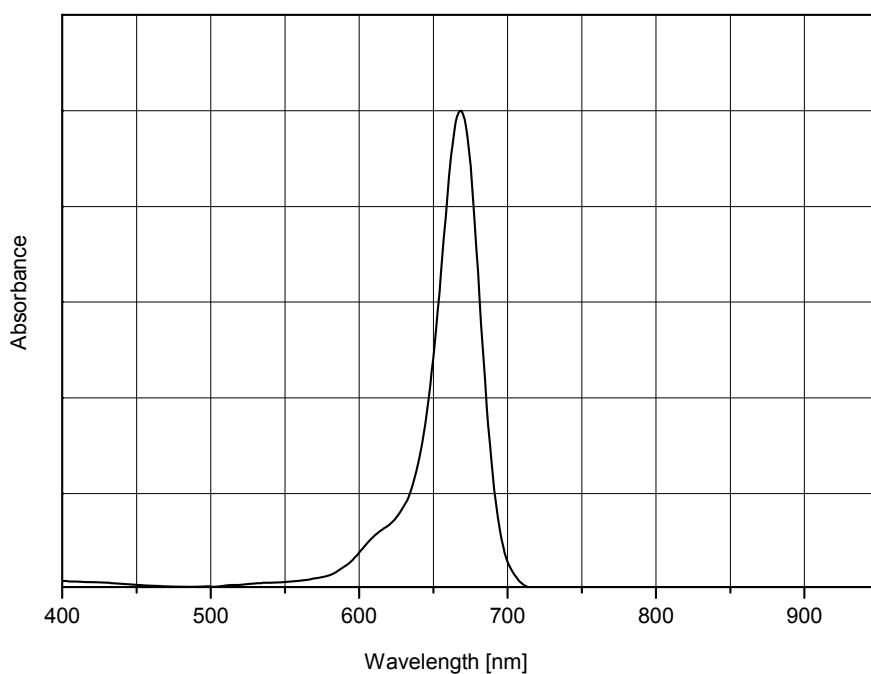
Name

1,3-Dihydroxy-2,4-bis(2,3,6,7-tetrahydro-8-hydroxy-1,1,7,7-tetramethyl-1H,5H-benzo[*ij*]quinolizin-9-yl)-cyclobutenediylum bis(inner salt)

Structure



Spectrum

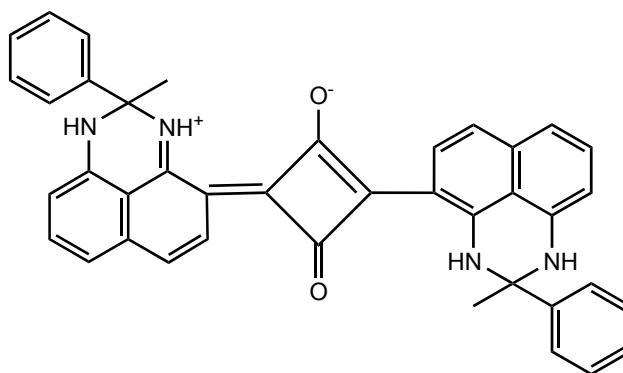


Absorption maximum	Total formula	Molecular weight	CAS #
824 nm (DMF)	C ₄₀ H ₃₀ N ₄ O ₂	598.71 g mol ⁻¹	

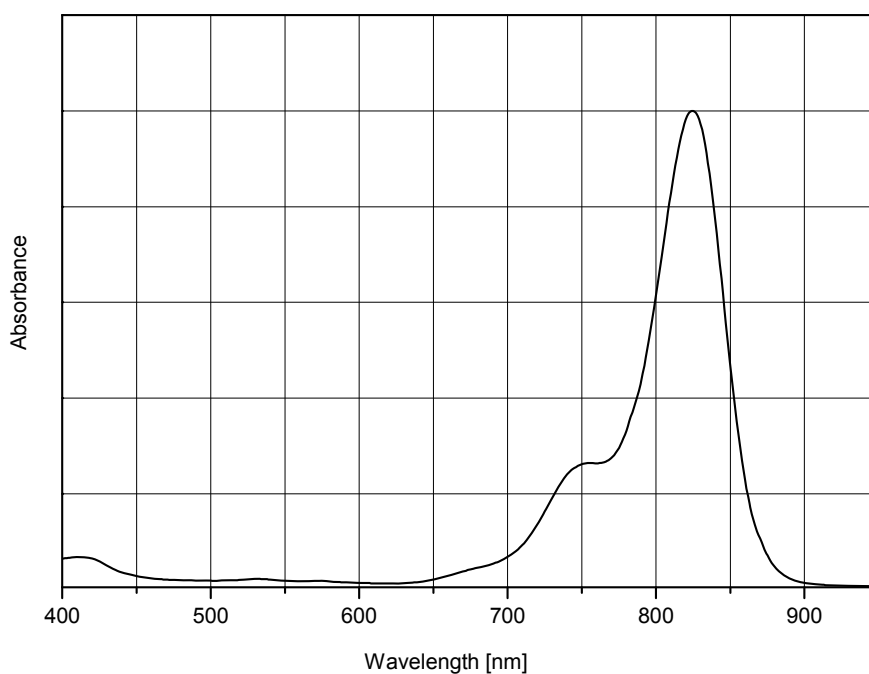
Name

4-(2-Methyl-2-phenyl-1H-perimidin-3-ium-4(2H)-ylidene)-2-(2-methyl-2-phenyl-2,3-dihydro-1H-perimidin-4-yl)-3-oxocyclobut-1-enolate

Structure



Spectrum

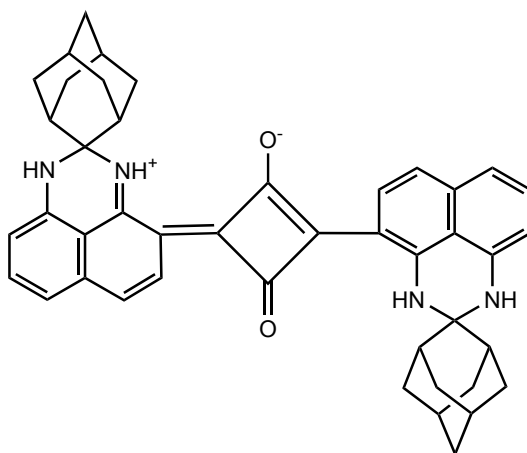


Absorption maximum	Total formula	Molecular weight	CAS #
825 nm (DMF)	C ₄₄ H ₄₂ N ₄ O ₂	658.85 g mol ⁻¹	

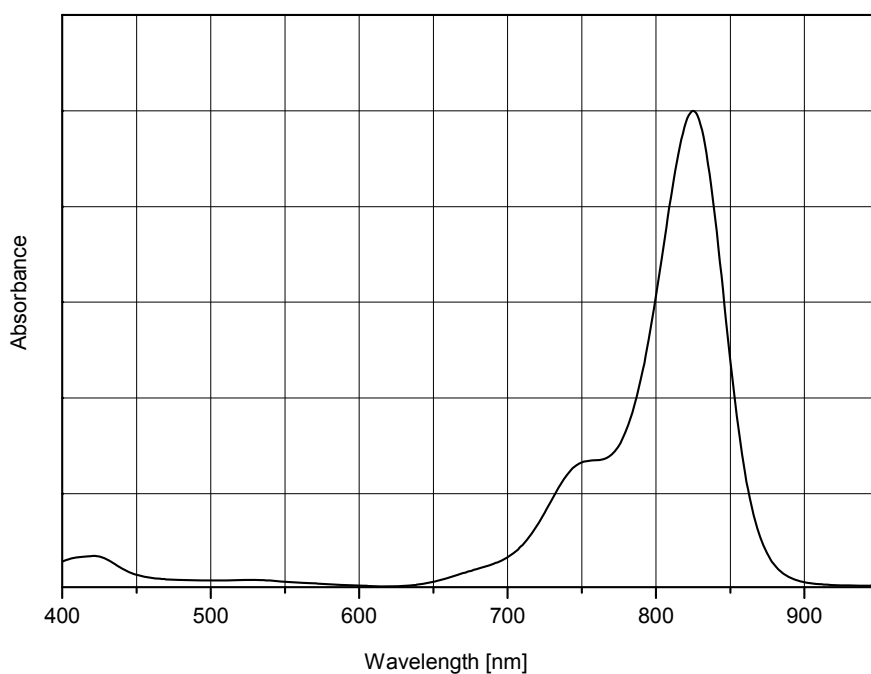
Name

4-(2-Adamantanylidene-1H-perimidin-3-ium-4(2H)-ylidene)-2-(2-adamantanylidene-2,3-dihydro-1H-perimidin-4-yl)-3-oxocyclobut-1-enolate

Structure



Spectrum

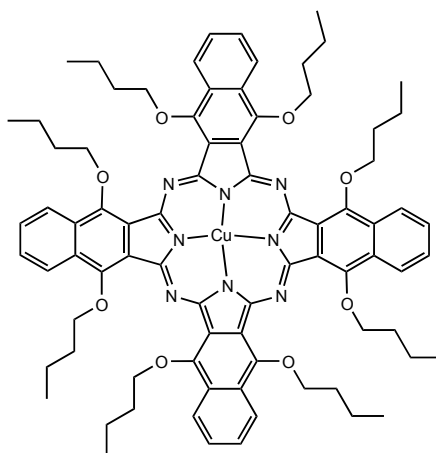


Absorption maximum	Total formula	Molecular weight	CAS #
849 nm (CH ₂ Cl ₂)	C ₈₀ H ₈₈ CuN ₈ O ₈	1353.17 g mol ⁻¹	155773-67-4

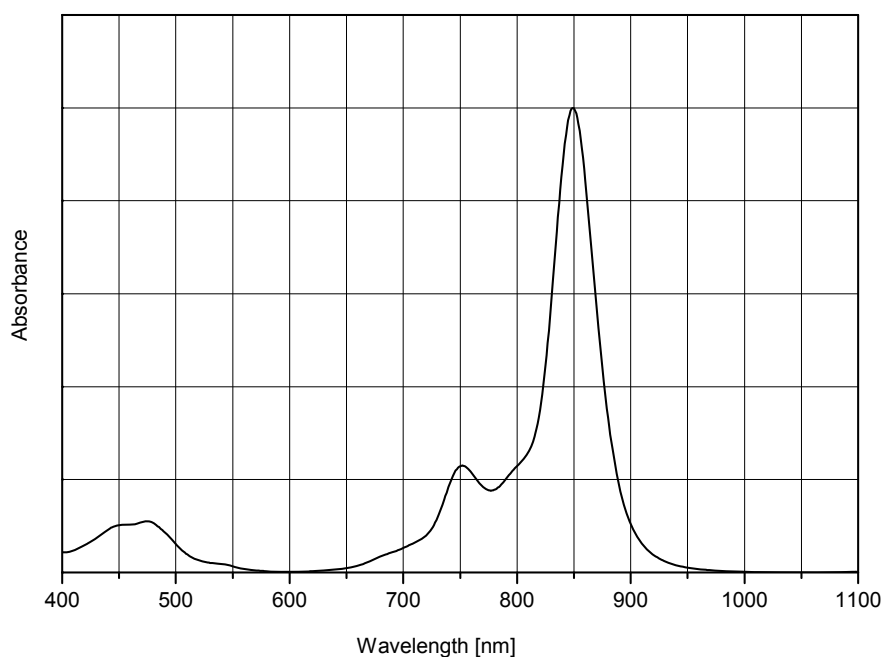
Name

Copper(II)-5,9,14,18,23,27,32,36-octabutyloxy-2,3-naphthalocyanine

Structure



Spectrum

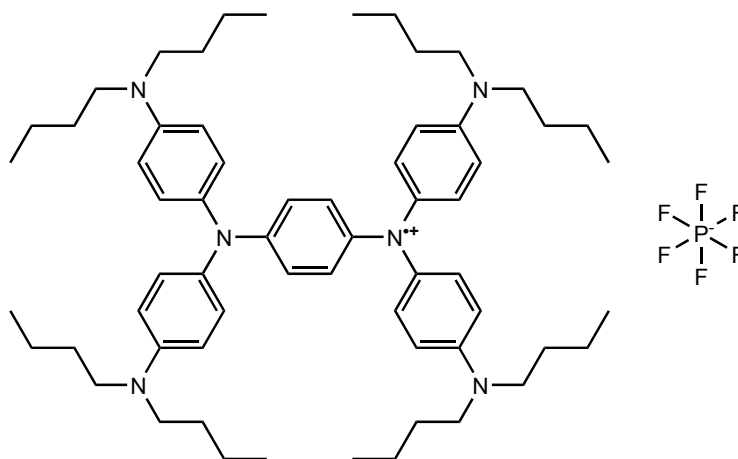


Absorption maximum	Total formula	Molecular weight	CAS #
970 nm (CH ₃ CN)	C ₆₂ H ₉₂ F ₆ N ₆ P	1066.42 g mol ⁻¹	152340-26-6

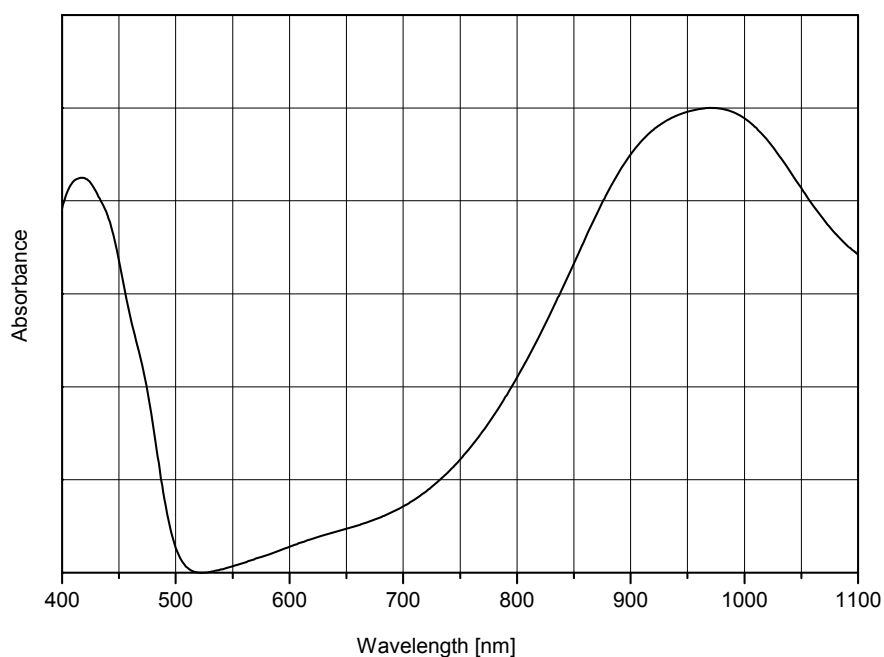
Name

[4-[Bis-(4-dibutylamino-phenyl)-amino]-phenyl]-bis-(4-dibutylamino-phenyl)-ammonium hexafluorophosphate

Structure



Spectrum

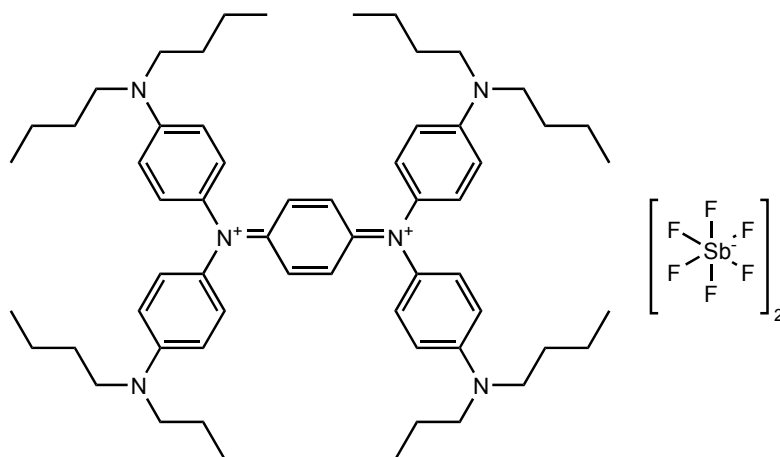


Absorption maximum	Total formula	Molecular weight	CAS #
1066 nm (CH ₃ CN)	C ₆₂ H ₉₂ F ₁₂ N ₆ Sb ₂	1392.96 g mol ⁻¹	5496-71-9

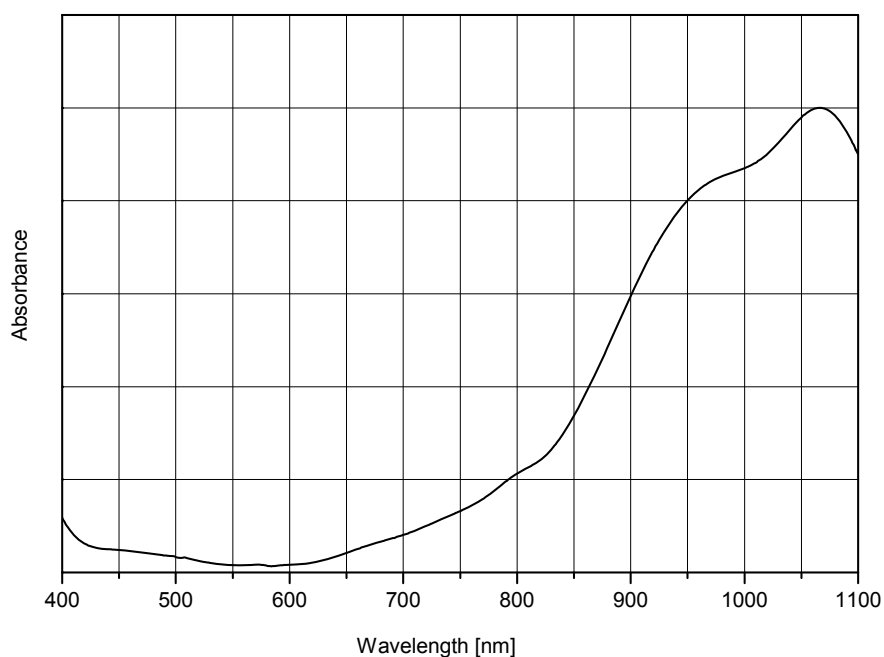
Name

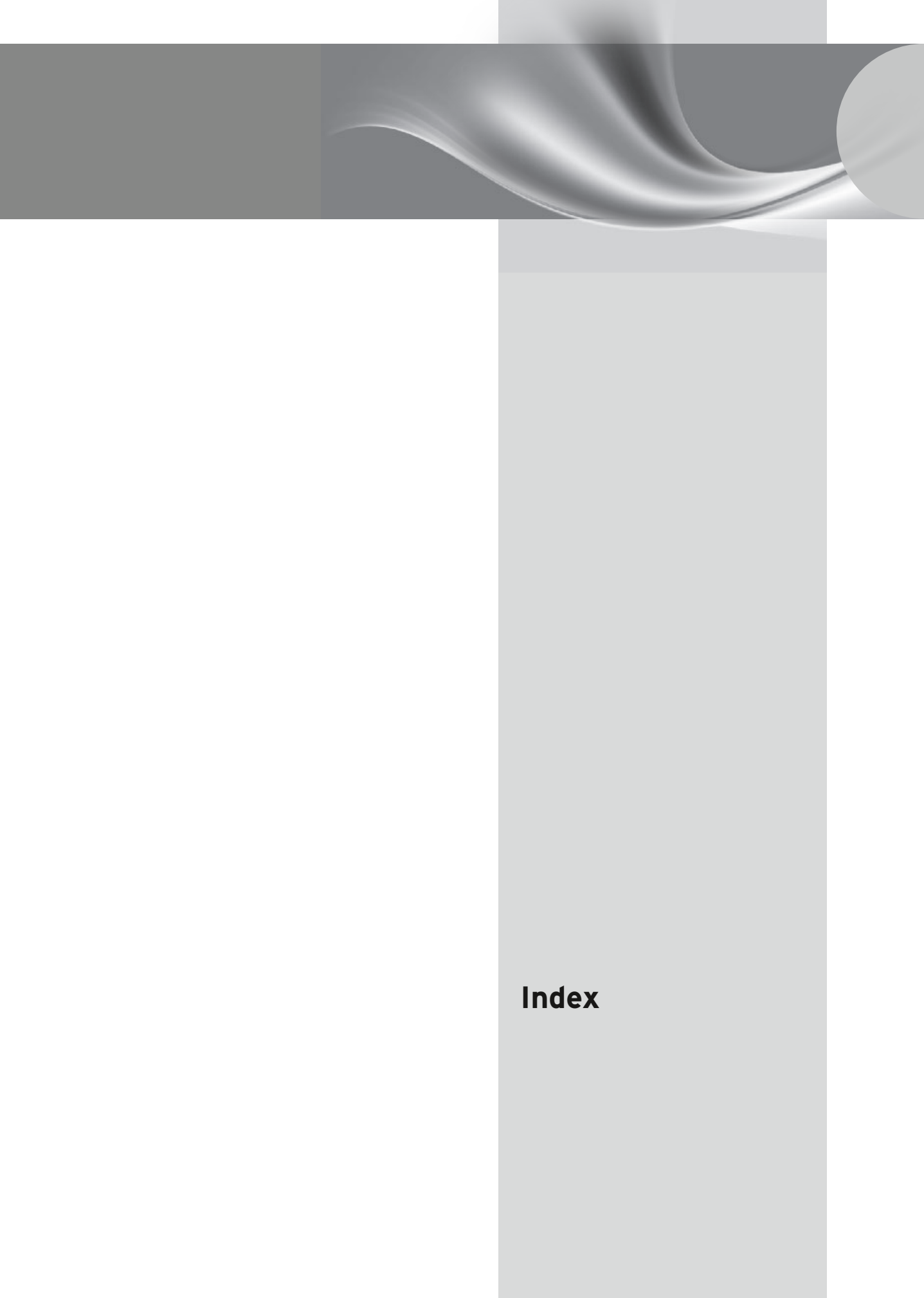
N,N,N',N'-Tetrakis-(p-di-n-butylaminophenyl)-p-benzochinon-bis-immonium hexafluoroantimonate

Structure



Spectrum





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