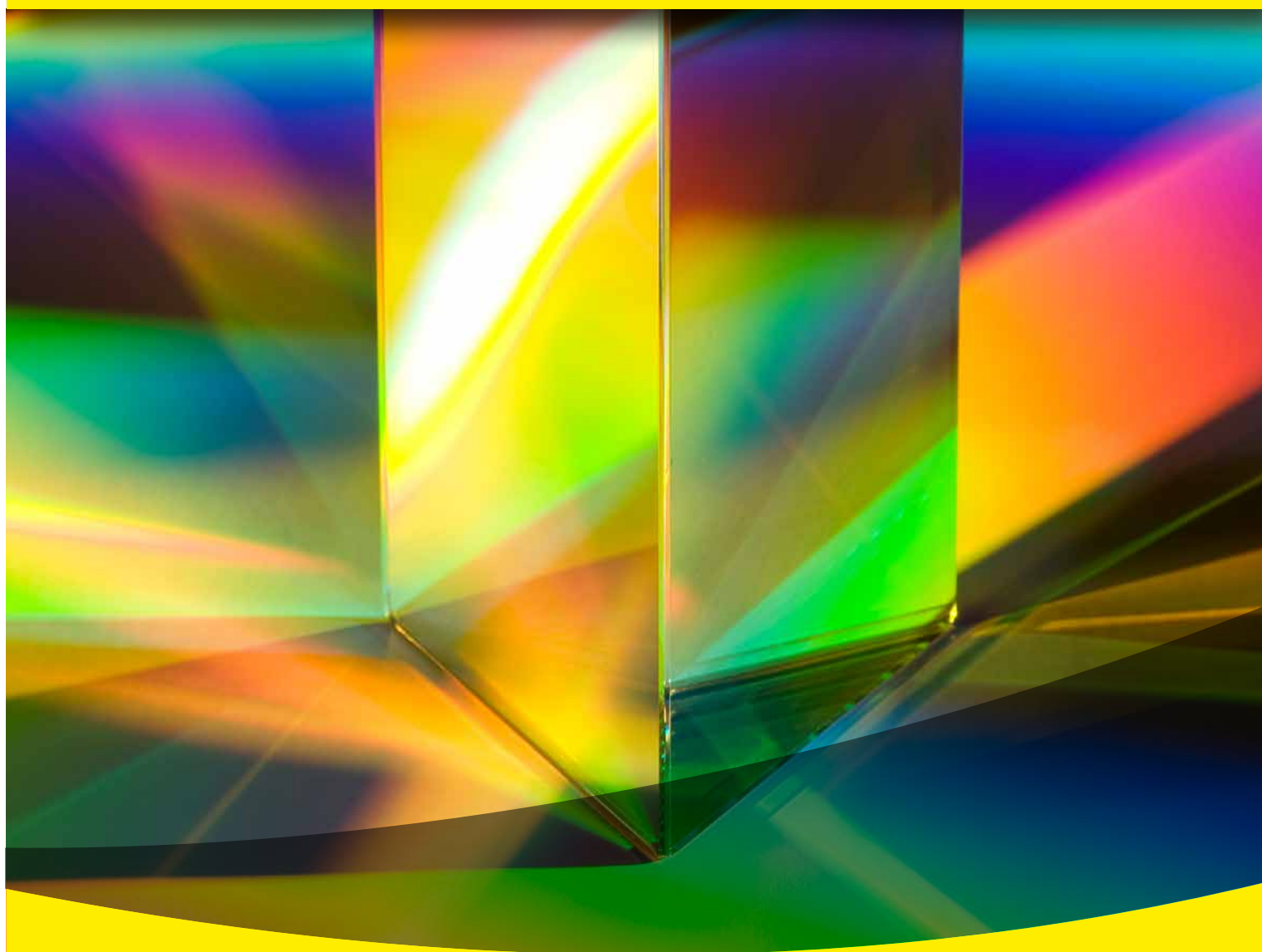


FUNCTIONAL DYES

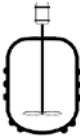
2023



Capacities

 **75 L -
6300 L**

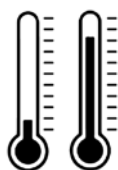
Reactor Capacities


185 m³

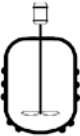
Total Reactor Capacity



25 kg/a - 1.000 MT/a



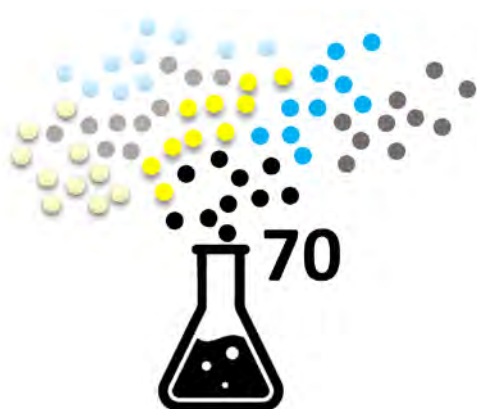
-20 up to 230°C


70

Total Reactor Capacity



Procedures
for Intermediates and Products



Reaction Types

- Condensation
- Heterocycle Syntheses
- Amidation
- Halogenation
- Amination
- Alkylation/Quaternization
- Nitration
- Sulfonation
- Acetylations
- Reduction and Chiral Hydrogenation
- Oxidation
- Diazotization
- Grignard reaction
- Friedel-Crafts Alkylation and Acylation
- Heterogeneous and homogeneous Catalysis

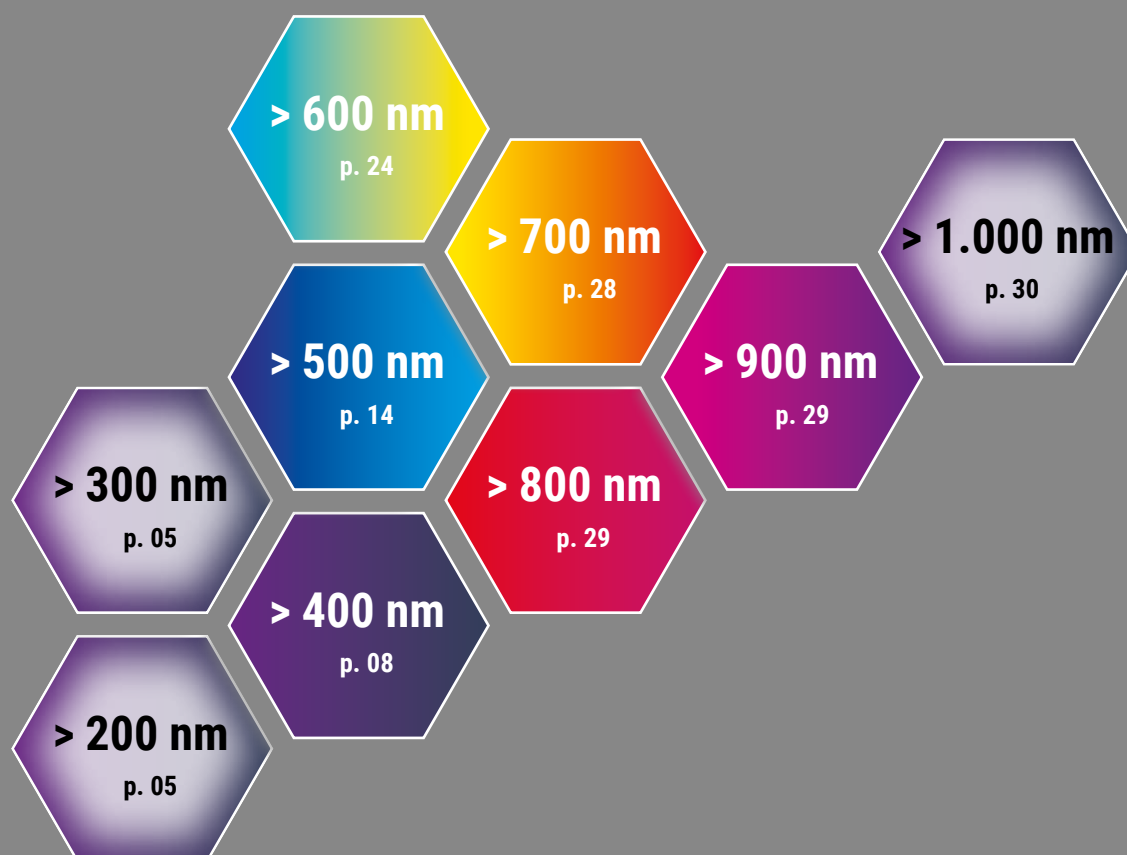
What can we do for you?



Product Inquiry

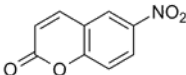
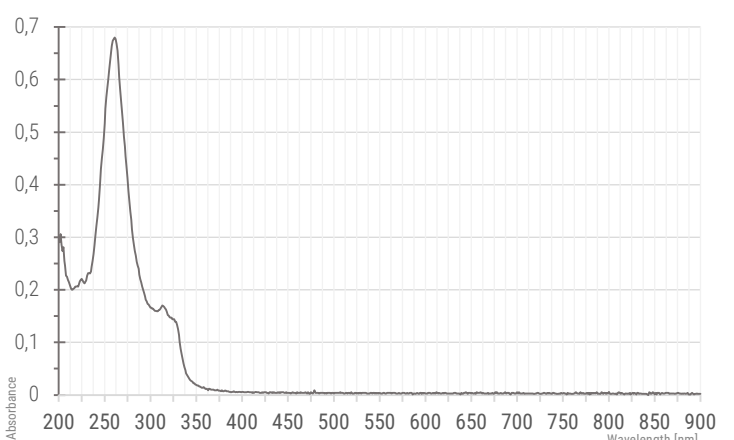
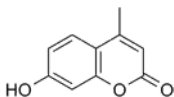
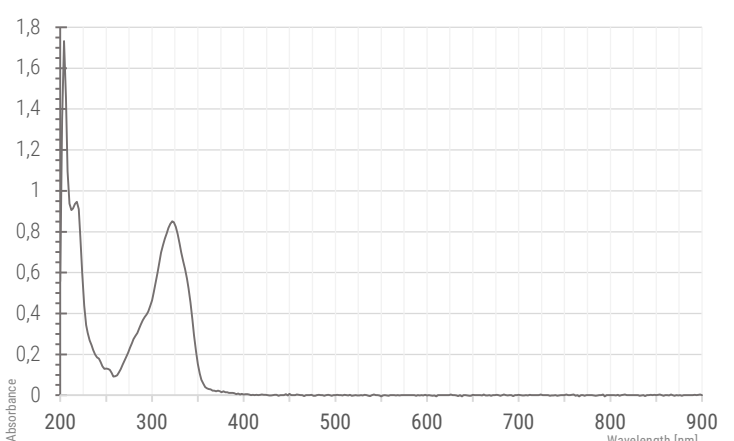
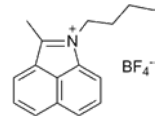
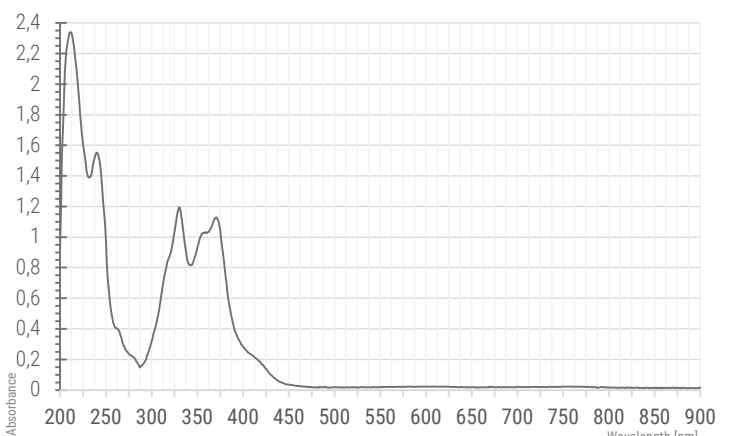
FUNCTIONAL DYES

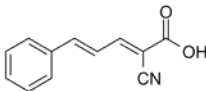
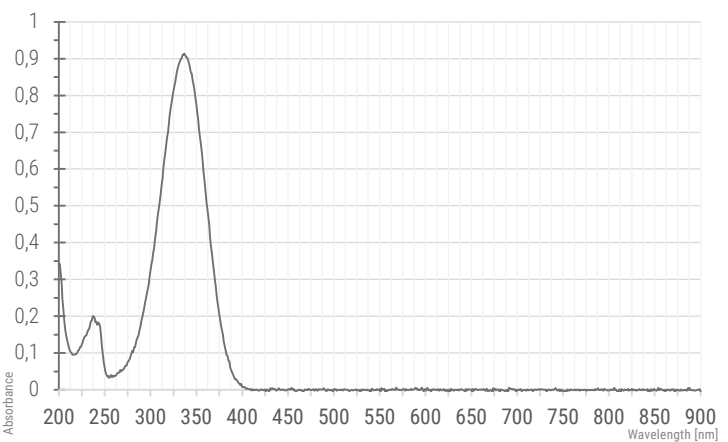
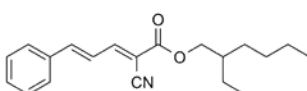
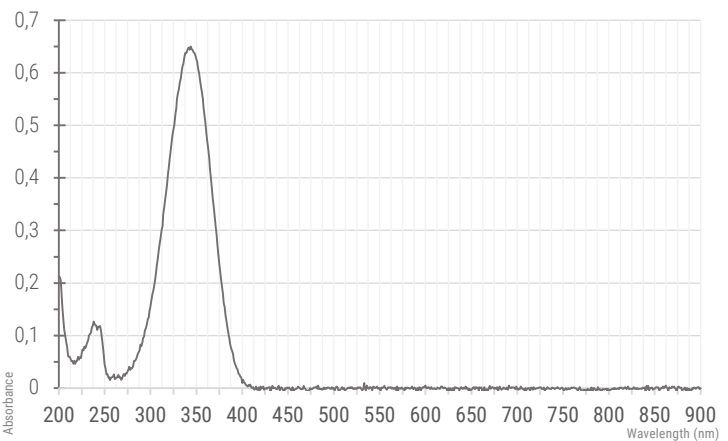
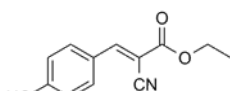
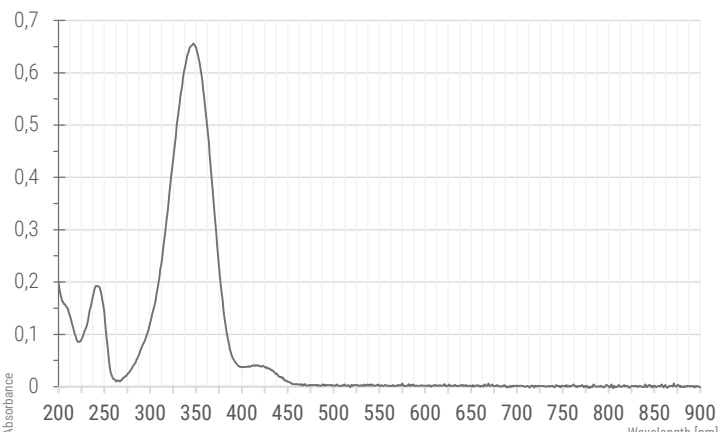
2023

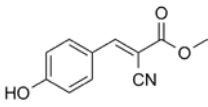
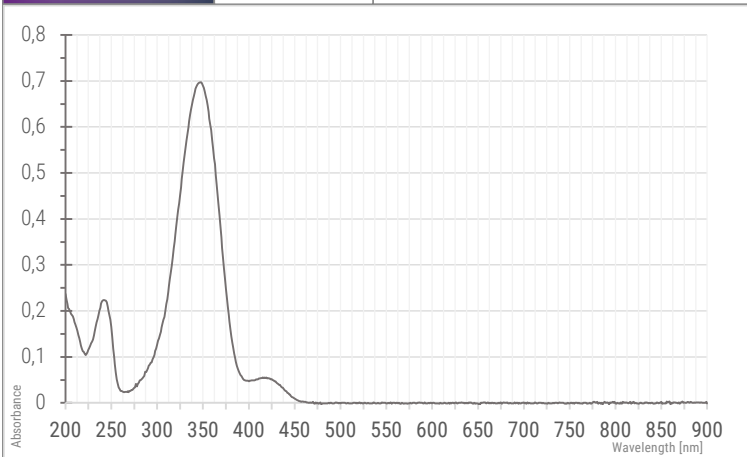
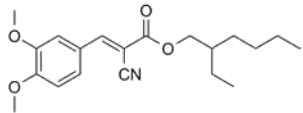
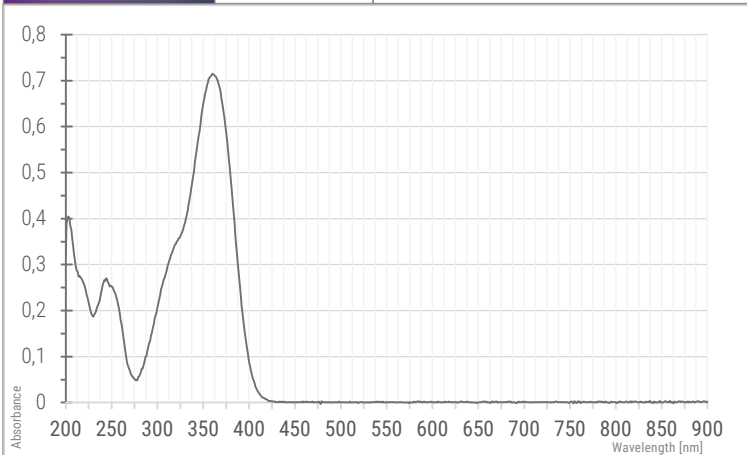
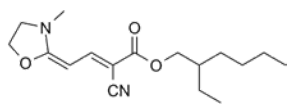
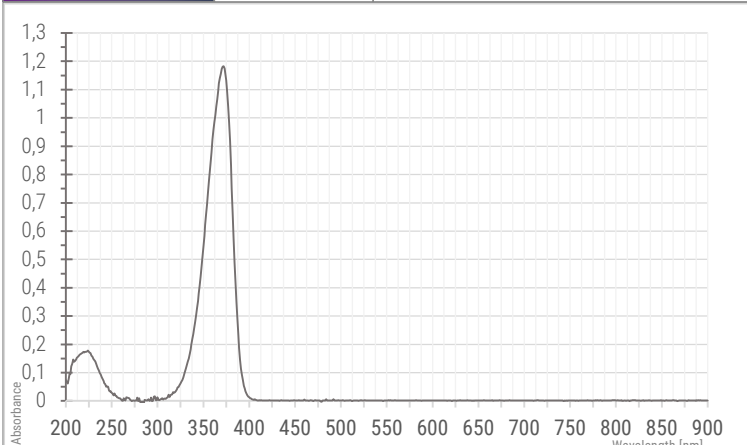


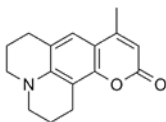
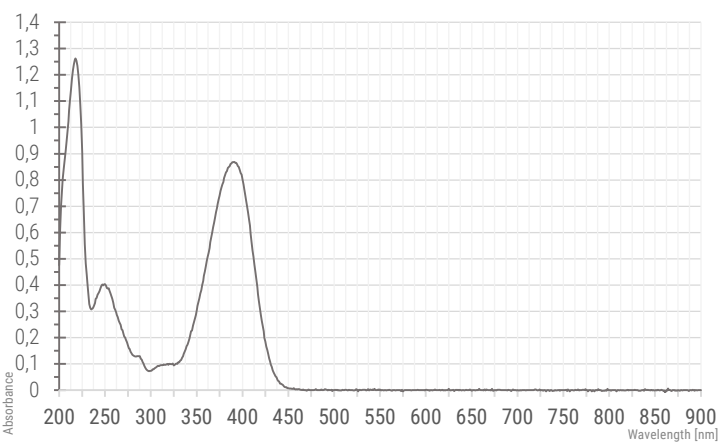
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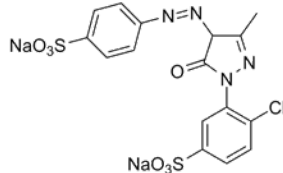
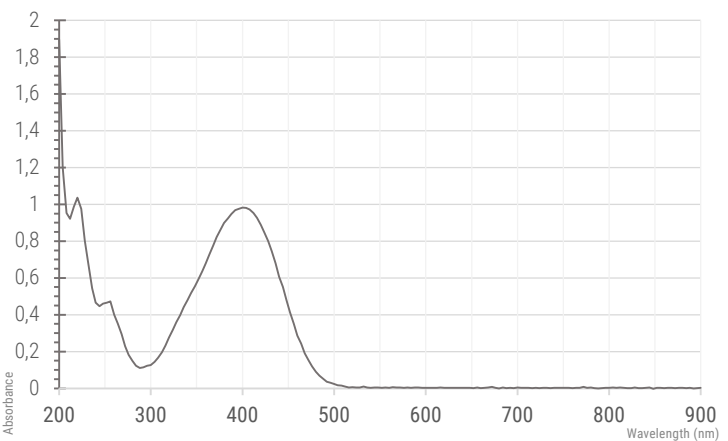
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Wavelength _____	30
Code Number _____	31

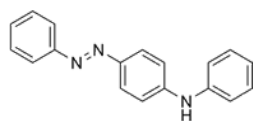
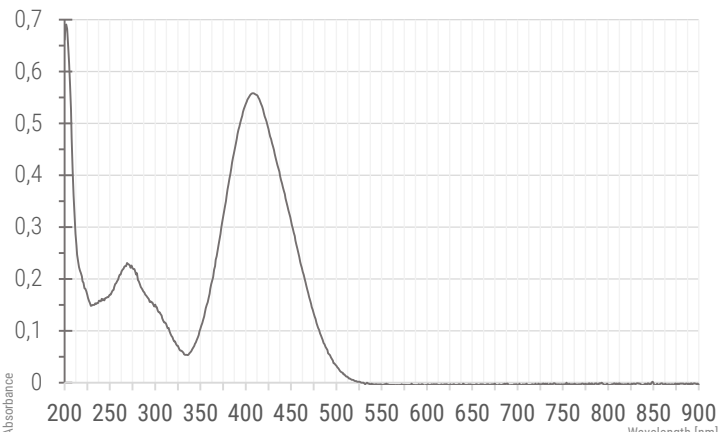
261 nm (MeOH) Absorption max.			 Colour of Product						6-Nitro-2H-chromen-2-one <i>6-Nitrocoumarin</i>		
						CAS-No.	2725-81-7				
						Code	71030				
						Molecular Formula	C ₉ H ₅ NO ₄				
						Molecular Weight	191.14 g/mol				
						Extinction Coefficient	25861 L/mol-cm				
						Solubility in Water	0.04 % 0.4 g/L				
						Solubility in MeOH	0.15 % 1.0 g/L				
						Appearance	White to slight yellowish crystalline powder				
						Application	Functional Dye				
322 nm (MeOH) Absorption max.			 Colour of Product						7-Hydroxy-4-methylcoumarin <i>Coumarin 4</i>		
						CAS-No.	90-33-5				
						Code	17041				
						Molecular Formula	C ₁₀ H ₈ O ₃				
						Molecular Weight	176.17 g/mol				
						Extinction Coefficient	14992 L/mol-cm				
						Solubility in Water	0.1 % 0.9 g/L				
						Solubility in MeOH	3.3 % 25.4 g/L				
						Appearance	Off-white to yellowish crystalline powder				
						Application	Laser/Scintillation Dye				
330/371 nm (MeOH) Absorption max.			 Colour of Product						1-Butyl-2-methylbenzo[cd]indol-1-ium tetrafluoroborate		
						CAS-No.	145193-96-0				
						Code	79400				
						Molecular Formula	C ₁₆ H ₁₈ NBF ₄				
						Molecular Weight	311.12 g/mol				
						Extinction Coefficient	11485/10832 L/mol-cm				
						Solubility in Water	1.0 % 10.2 g/L				
						Solubility in MeOH	12.7 % 98.1 g/L				
						Appearance	Dark green to black crystalline powder				
						Application	Functional Dye				

337 nm (MeOH) Absorption max.	 Colour of Product		α-Cyano-5-phenyl-2,4-pentadienic acid	
			CAS-No.	24139-57-9
			Code	33870
			Molecular Formula	C₁₂H₉NO₂
			Molecular Weight	199.21 g/mol
			Extinction Coefficient	36414 L/mol·cm
			Solubility in Water	0.015 % 0.15 g/L
			Solubility in MeOH	10.6 % 85.5 g/L
			Appearance	Yellow crystalline powder
Application	UV Absorbing Agent			
344 nm (MeOH) Absorption max.	 Colour of Product		2-Ethylhexyl-2-cyano-5-phenyl-2,4-pentadienoate	
			CAS-No.	131512-74-8
			Code	33900
			Molecular Formula	C₂₀H₂₅NO₂
			Molecular Weight	311.42 g/mol
			Extinction Coefficient	40485 L/mol·cm
			Solubility in Water	0.1 % 1.3 g/L
			Solubility in MeOH	3.2 % 24 g/L
			Appearance	Yellow crystalline powder
Application	UV Absorbing Agent			
347 nm (MeOH) Absorption max.	 Colour of Product		Ethyl-α-cyano-4-hydroxycinnamate	
			CAS-No.	6935-44-0
			Code	36780
			Molecular Formula	C₁₂H₁₁NO₃
			Molecular Weight	217.23 g/mol
			Extinction Coefficient	28499 L/mol·cm
			Solubility in Water	0.03 % 0.3 g/L
			Solubility in MeOH	1.4 % 10.5 g/L
			Appearance	Light-yellow crystalline powder
Application	UV Absorbing Agent			

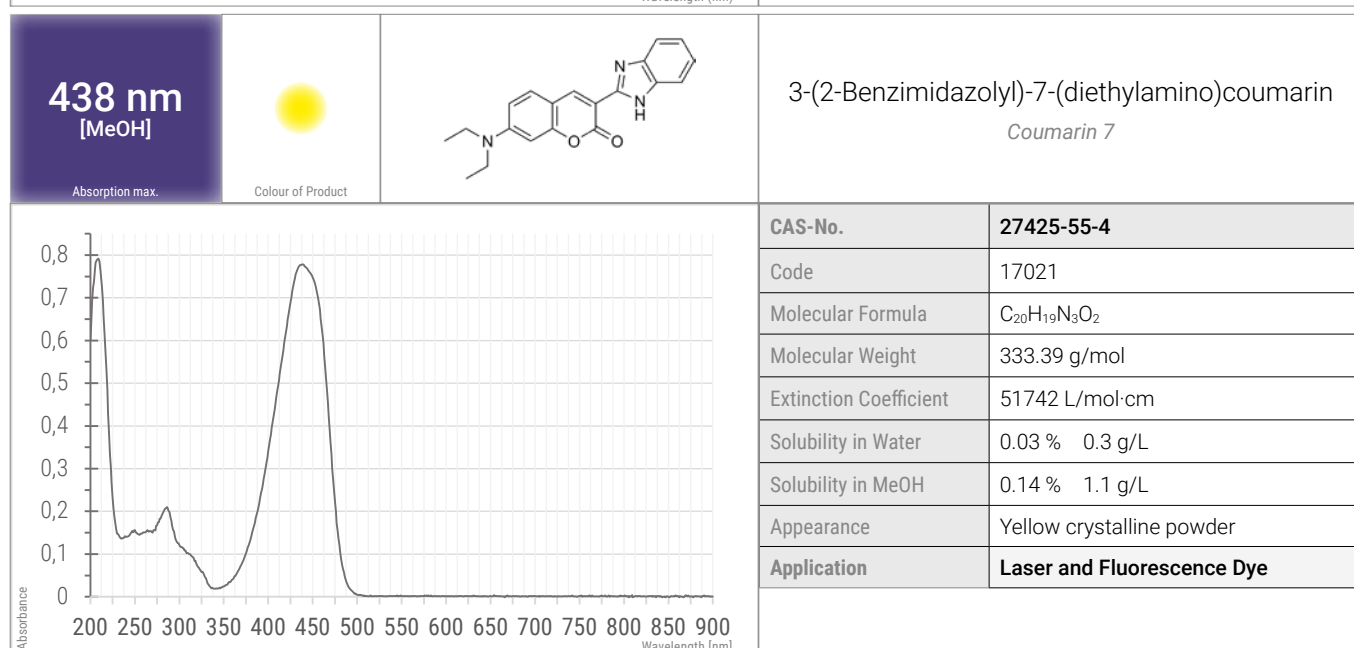
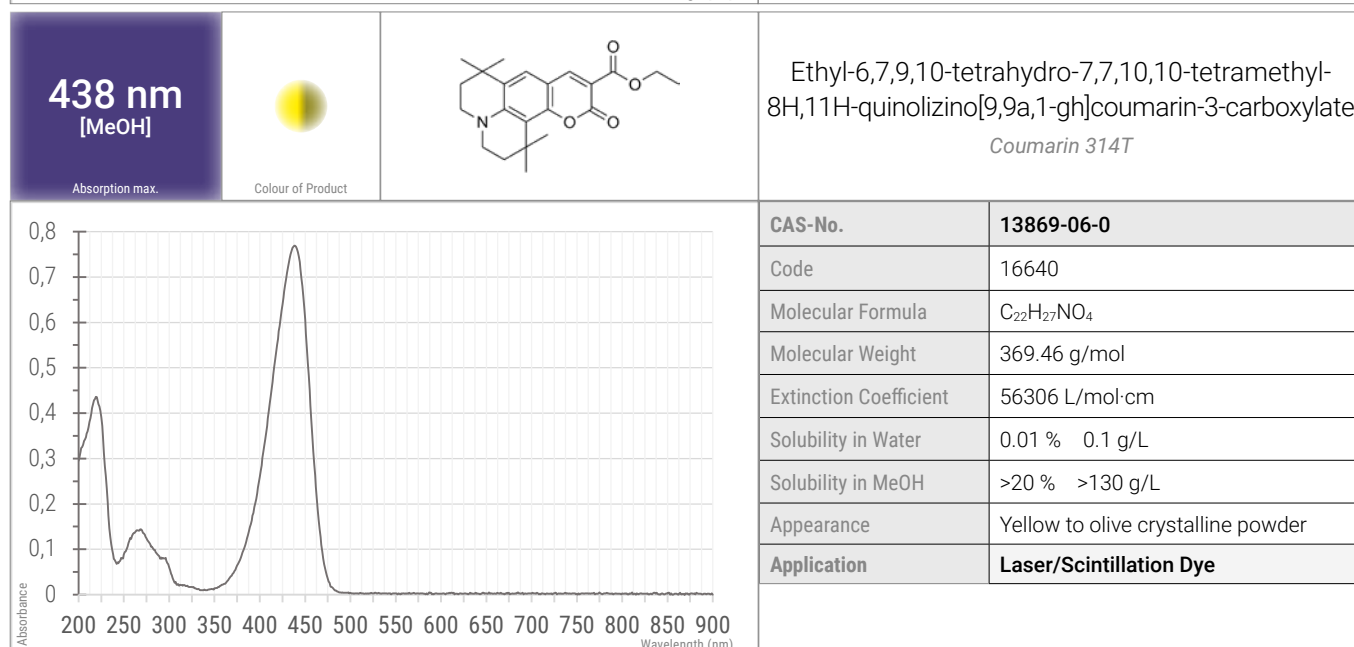
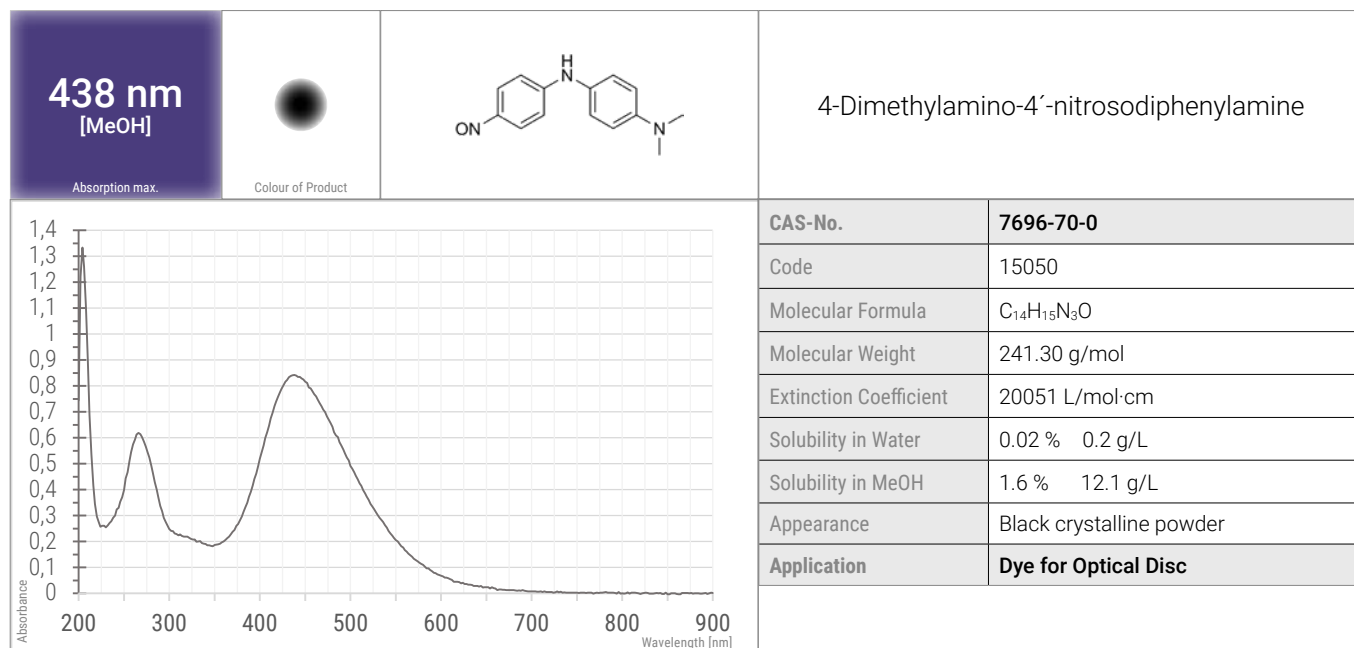
348 nm (MeOH) Absorption max.	Colour of Product		Methyl-α-cyano-4-hydroxycinnamate																			
			<table><tr><td>CAS-No.</td><td>3695-85-0</td></tr><tr><td>Code</td><td>36790</td></tr><tr><td>Molecular Formula</td><td>C₁₁H₉NO₃</td></tr><tr><td>Molecular Weight</td><td>203.20 g/mol</td></tr><tr><td>Extinction Coefficient</td><td>28293 L/mol·cm</td></tr><tr><td>Solubility in Water</td><td>0.3 % 3 g/L</td></tr><tr><td>Solubility in MeOH</td><td>1.8 % 12 g/L</td></tr><tr><td>Appearance</td><td>Yellow crystalline powder</td></tr><tr><td>Application</td><td>UV Absorbing Agent</td></tr></table>		CAS-No.	3695-85-0	Code	36790	Molecular Formula	C ₁₁ H ₉ NO ₃	Molecular Weight	203.20 g/mol	Extinction Coefficient	28293 L/mol·cm	Solubility in Water	0.3 % 3 g/L	Solubility in MeOH	1.8 % 12 g/L	Appearance	Yellow crystalline powder	Application	UV Absorbing Agent
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360 nm (MeOH) Absorption max.	Colour of Product		2-Ethylhexyl-α-cyano-3,4-dimethoxycinnamate																			
			<table><tr><td>CAS-No.</td><td>143269-62-9</td></tr><tr><td>Code</td><td>33820</td></tr><tr><td>Molecular Formula</td><td>C₂₀H₂₇NO₄</td></tr><tr><td>Molecular Weight</td><td>345.43 g/mol</td></tr><tr><td>Extinction Coefficient</td><td>23766 L/mol·cm</td></tr><tr><td>Solubility in Water</td><td>0.4 % 4 g/L</td></tr><tr><td>Solubility in MeOH</td><td>20 % 163 g/L</td></tr><tr><td>Appearance</td><td>Light-yellow crystalline powder</td></tr><tr><td>Application</td><td>UV Absorbing Agent</td></tr></table>		CAS-No.	143269-62-9	Code	33820	Molecular Formula	C ₂₀ H ₂₇ NO ₄	Molecular Weight	345.43 g/mol	Extinction Coefficient	23766 L/mol·cm	Solubility in Water	0.4 % 4 g/L	Solubility in MeOH	20 % 163 g/L	Appearance	Light-yellow crystalline powder	Application	UV Absorbing Agent
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371 nm (MeOH) Absorption max.	Colour of Product		2-Ethylhexyl-α-cyano-4-(3-methyloxazolin-2-ylidene)crotonate																			
			<table><tr><td>CAS-No.</td><td>143269-64-1</td></tr><tr><td>Code</td><td>33720</td></tr><tr><td>Molecular Formula</td><td>C₁₇H₂₆N₂O₃</td></tr><tr><td>Molecular Weight</td><td>306.41 g/mol</td></tr><tr><td>Extinction Coefficient</td><td>72619 L/mol·cm</td></tr><tr><td>Solubility in Water</td><td>0.3 % 3 g/L</td></tr><tr><td>Solubility in MeOH</td><td>>55 % >500 g/L</td></tr><tr><td>Appearance</td><td>Yellowish crystalline powder</td></tr><tr><td>Application</td><td>UV Absorbing Agent</td></tr></table>		CAS-No.	143269-64-1	Code	33720	Molecular Formula	C ₁₇ H ₂₆ N ₂ O ₃	Molecular Weight	306.41 g/mol	Extinction Coefficient	72619 L/mol·cm	Solubility in Water	0.3 % 3 g/L	Solubility in MeOH	>55 % >500 g/L	Appearance	Yellowish crystalline powder	Application	UV Absorbing Agent
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Appearance	Yellowish crystalline powder																					
Application	UV Absorbing Agent																					

391 nm (MeOH) Absorption max.	 Colour of Product		4-Methyl-6,7,9,10-tetrahydro-8H,11H-quinolizino [9,9a,1-g]coumarin Coumarin 102	
			CAS-No.	41267-76-9
			Code	17080
			Molecular Formula	C₁₆H₁₇NO₂
			Molecular Weight	255.32 g/mol
			Extinction Coefficient	22186 L/mol·cm
			Solubility in Water	0.005 % 0.05 g/L
			Solubility in MeOH	1.7 % 13.5 g/L
			Appearance	Yellow crystalline powder
Application	Laser/Scintillation Dye			

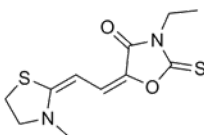
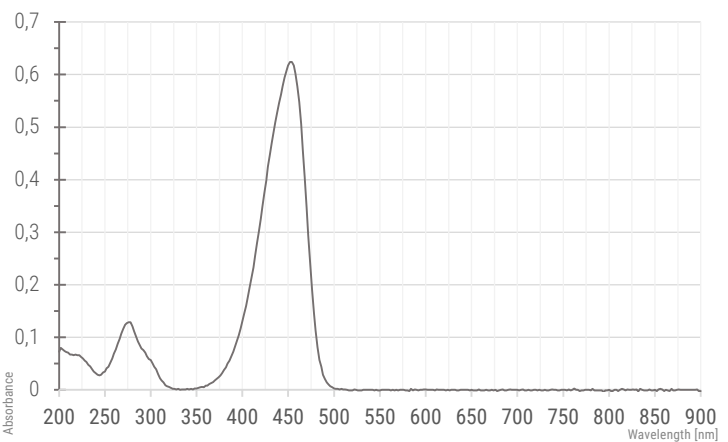
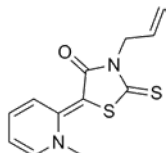
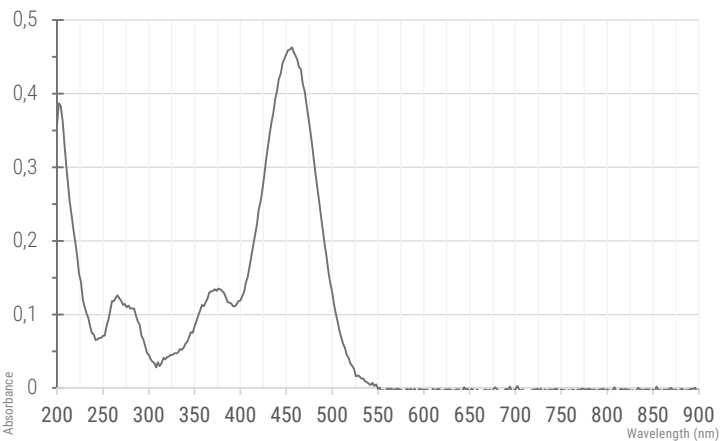
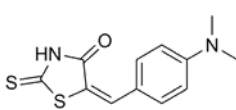
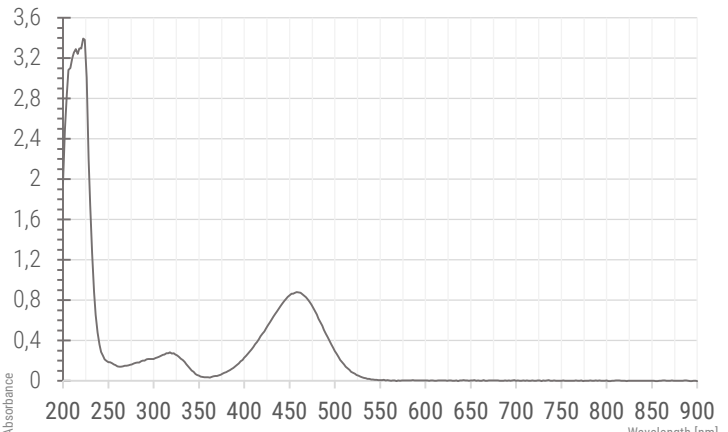
400 nm [MeOH] Absorption max.	 Colour of Product		1-(2-Chloro-5-sulfophenyl)-3-methyl-4-(4-sulfophenyl)azo-2-pyrazolin-5-one disodium salt	
			CAS-No.	91101-24-5
			Code	33340
			Molecular Formula	C₁₆H₁₁ClN₄O₇S₂Na₂
			Molecular Weight	516.86 g/mol
			Extinction Coefficient	20322 L/mol·cm
			Solubility in Water	7.5 % 75 g/L
			Solubility in MeOH	1 % 7.6 g/L
			Appearance	Yellow crystalline powder
Application	Filter Dye in Photography			

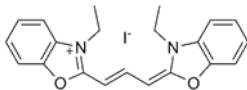
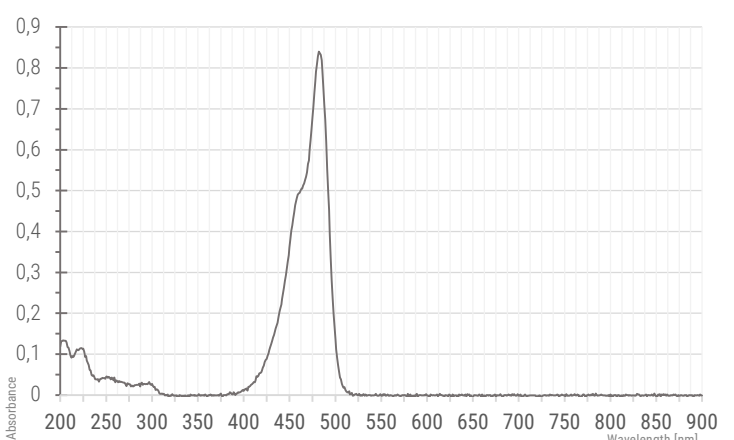
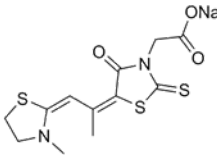
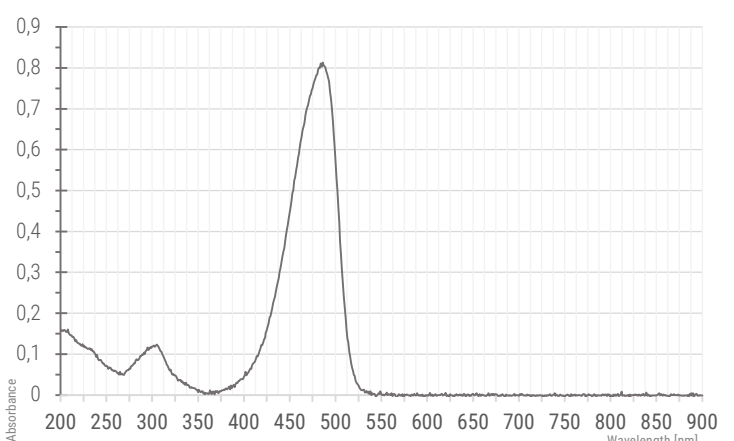
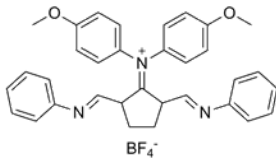
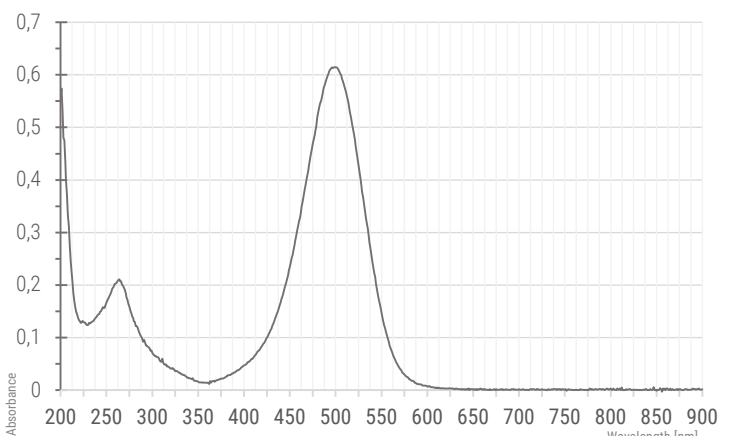
409 nm [MeOH] Absorption max.	 Colour of Product		4-Phenylazodiphenylamine	
			CAS-No.	101-75-7
			Code	34860
			Molecular Formula	C₁₈H₁₅N₃
			Molecular Weight	273.34 g/mol
			Extinction Coefficient	30558 L/mol·cm
			Solubility in Water	0.01 % 0.1 g/L
			Solubility in MeOH	8.1 % 62 g/L
			Appearance	Orange crystalline powder
Application	Functional Dye for Arts/Graphics			

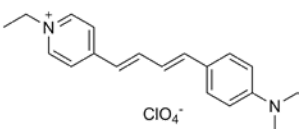
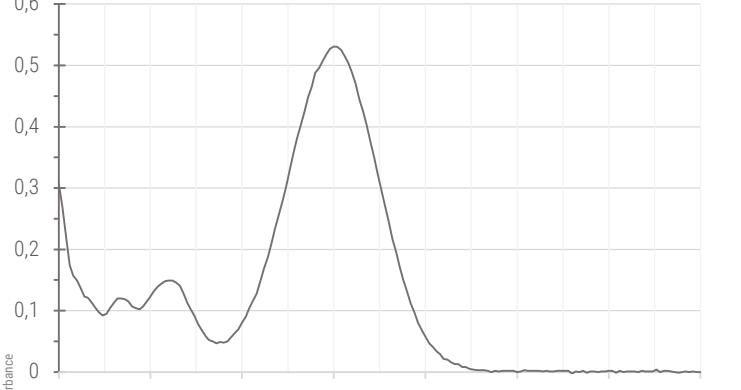
419 nm [MeOH] Absorption max.	Colour of Product	<chem>CCN(CC)c1ccc2c(c1)c(=O)oc(=O)c2C(=O)OCC</chem>	Ethyl-7-diethylaminocoumarin-3-carboxylate	
			CAS-No.	28705-46-6
			Code	08610
			Molecular Formula	C₁₆H₁₉NO₄
			Molecular Weight	289.34 g/mol
			Extinction Coefficient	47628 L/mol-cm
			Solubility in Water	0.01 % 0.1 g/L
			Solubility in MeOH	>22 % >200 g/L
			Appearance	Light-yellow crystalline powder
			Application	Laser/Scintillation Dye
426 nm [MeOH] Absorption max.	Colour of Product	<chem>CCN(CC)[NH+]([C-](=O)O)C1=CC2=C(C=C1)S=C(S2)C3=CC=CC=C3</chem>	Triethylammonium 5-(3-ethylbenzothiazol-2(3H)-ylidene)-4-oxo-2-thioxothiazolidine-3-acetate	
			CAS-No.	68239-70-3
			Code	74270
			Molecular Formula	C₂₀H₂₇N₃O₃S₃
			Molecular Weight	453.63 g/mol
			Extinction Coefficient	58481 L/mol-cm
			Solubility in Water	Not determined
			Solubility in MeOH	4.1 % 32.4 g/l
			Appearance	Yellow crystalline powder
			Application	Functional Dye
430 nm [MeOH] Absorption max.	Colour of Product	<chem>CCN(CC)C1=CC2=C(C=C1)S=C(S2)C3=CC=CC=C3</chem>	3-Allyl-5-(3-ethyl-4-methyl-2-thiazolinyldene)rhodanine	
			CAS-No.	203785-75-5
			Code	12950
			Molecular Formula	C₁₂H₁₄N₂O₃S₃
			Molecular Weight	298.45 g/mol
			Extinction Coefficient	45842 L/mol-cm
			Solubility in Water	0.4 % 4 g/L
			Solubility in MeOH	0.02 0.1 g/L
			Appearance	Light-yellow crystalline powder
			Application	Blue Sensitizer in Photography

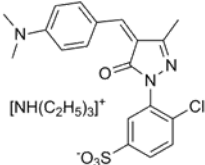
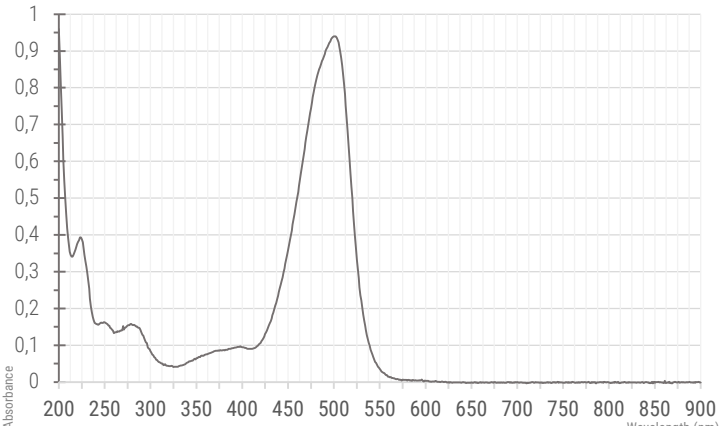


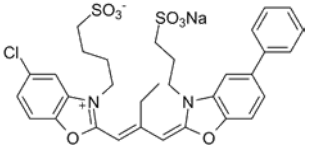
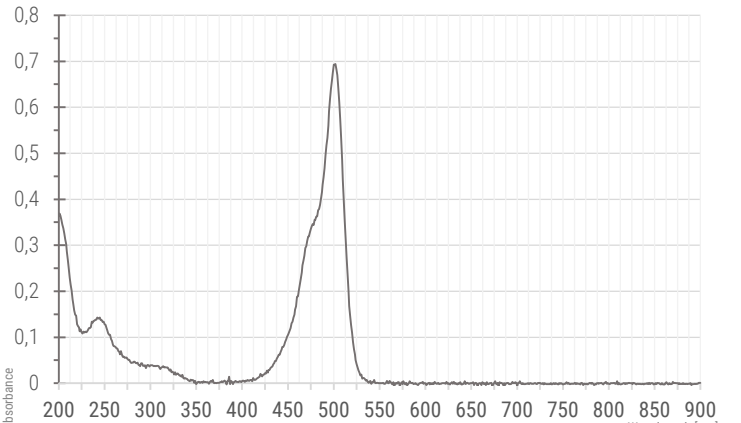
438 nm [MeOH] Absorption max.		Colour of Product		Ethyl-6,7,9,10-tetrahydro-8H,11H-quinolizino [9,9a,1-g]coumarin-3-carboxylate Coumarin 504																		
				<table><tr><td>CAS-No.</td><td>55804-66-5</td></tr><tr><td>Code</td><td>17120</td></tr><tr><td>Molecular Formula</td><td>C₁₈H₁₉NO₄</td></tr><tr><td>Molecular Weight</td><td>313.35 g/mol</td></tr><tr><td>Extinction Coefficient</td><td>47817 L/mol-cm</td></tr><tr><td>Solubility in Water</td><td>0.01 % 0.12 g/L</td></tr><tr><td>Solubility in MeOH</td><td>1.5 % 11.4 g/L</td></tr><tr><td>Appearance</td><td>Yellow crystalline powder</td></tr><tr><td>Application</td><td>Laser/Scintillation Dye</td></tr></table>	CAS-No.	55804-66-5	Code	17120	Molecular Formula	C ₁₈ H ₁₉ NO ₄	Molecular Weight	313.35 g/mol	Extinction Coefficient	47817 L/mol-cm	Solubility in Water	0.01 % 0.12 g/L	Solubility in MeOH	1.5 % 11.4 g/L	Appearance	Yellow crystalline powder	Application	Laser/Scintillation Dye
CAS-No.	55804-66-5																					
Code	17120																					
Molecular Formula	C ₁₈ H ₁₉ NO ₄																					
Molecular Weight	313.35 g/mol																					
Extinction Coefficient	47817 L/mol-cm																					
Solubility in Water	0.01 % 0.12 g/L																					
Solubility in MeOH	1.5 % 11.4 g/L																					
Appearance	Yellow crystalline powder																					
Application	Laser/Scintillation Dye																					
440 nm [MeOH] Absorption max.		Colour of Product		3,3'-Bis(3-sulfopropyl)-5,5'-dimethoxythiacyanine betaine triethylammonium salt																		
				<table><tr><td>CAS-No.</td><td>63148-97-0</td></tr><tr><td>Code</td><td>12670</td></tr><tr><td>Molecular Formula</td><td>C₂₉H₄₁N₃O₈S₄</td></tr><tr><td>Molecular Weight</td><td>687.94 g/mol</td></tr><tr><td>Extinction Coefficient</td><td>83236 L/mol-cm</td></tr><tr><td>Solubility in Water</td><td>14.7 % 128 g/L</td></tr><tr><td>Solubility in MeOH</td><td>5.3 % 41 g/L</td></tr><tr><td>Appearance</td><td>Lemon-yellow crystalline powder</td></tr><tr><td>Application</td><td>Blue Sensitizer in Photography</td></tr></table>	CAS-No.	63148-97-0	Code	12670	Molecular Formula	C ₂₉ H ₄₁ N ₃ O ₈ S ₄	Molecular Weight	687.94 g/mol	Extinction Coefficient	83236 L/mol-cm	Solubility in Water	14.7 % 128 g/L	Solubility in MeOH	5.3 % 41 g/L	Appearance	Lemon-yellow crystalline powder	Application	Blue Sensitizer in Photography
CAS-No.	63148-97-0																					
Code	12670																					
Molecular Formula	C ₂₉ H ₄₁ N ₃ O ₈ S ₄																					
Molecular Weight	687.94 g/mol																					
Extinction Coefficient	83236 L/mol-cm																					
Solubility in Water	14.7 % 128 g/L																					
Solubility in MeOH	5.3 % 41 g/L																					
Appearance	Lemon-yellow crystalline powder																					
Application	Blue Sensitizer in Photography																					
442 nm [MeOH] Absorption max.		Colour of Product		N,N'-Di-n-butyl-2-(1,2-dihydro-3-hydroxy-6-isopropyl 2-quinolydene)-1,3-dioxindan-5-carboxamide																		
				<table><tr><td>CAS-No.</td><td>147613-95-4</td></tr><tr><td>Code</td><td>77690</td></tr><tr><td>Molecular Formula</td><td>C₃₀H₃₄N₂O₄</td></tr><tr><td>Molecular Weight</td><td>486.61 g/mol</td></tr><tr><td>Extinction Coefficient</td><td>54306 L/mol-cm</td></tr><tr><td>Solubility in Water</td><td>0.03 % 0.3 g/L</td></tr><tr><td>Solubility in MeOH</td><td>0.16 % 1.2 g/L</td></tr><tr><td>Appearance</td><td>Orange crystalline powder</td></tr><tr><td>Application</td><td>Laser/Scintillation Dye</td></tr></table>	CAS-No.	147613-95-4	Code	77690	Molecular Formula	C ₃₀ H ₃₄ N ₂ O ₄	Molecular Weight	486.61 g/mol	Extinction Coefficient	54306 L/mol-cm	Solubility in Water	0.03 % 0.3 g/L	Solubility in MeOH	0.16 % 1.2 g/L	Appearance	Orange crystalline powder	Application	Laser/Scintillation Dye
CAS-No.	147613-95-4																					
Code	77690																					
Molecular Formula	C ₃₀ H ₃₄ N ₂ O ₄																					
Molecular Weight	486.61 g/mol																					
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Appearance	Orange crystalline powder																					
Application	Laser/Scintillation Dye																					

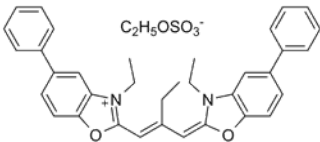
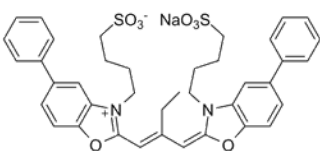
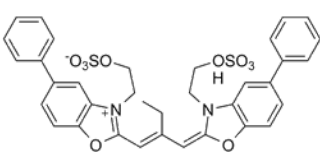
452 nm [MeOH] Absorption max.	 Colour of Product		3-Ethyl-5-[2-(3-methyl-2-thiazolidinylidene)ethylidene]-2-thioxo-4-oxazolidone																			
			<table><tr><td>CAS-No.</td><td>35795-44-9</td></tr><tr><td>Code</td><td>12930</td></tr><tr><td>Molecular Formula</td><td>C₁₁H₁₄N₂O₂S₂</td></tr><tr><td>Molecular Weight</td><td>270.38 g/mol</td></tr><tr><td>Extinction Coefficient</td><td>68406 L/mol·cm</td></tr><tr><td>Solubility in Water</td><td>0.3 % 2.6 g/L</td></tr><tr><td>Solubility in MeOH</td><td>0.3 % 2.4 g/L</td></tr><tr><td>Appearance</td><td>Orange crystalline powder</td></tr><tr><td>Application</td><td>Blue Sensitizer in Photography</td></tr></table>		CAS-No.	35795-44-9	Code	12930	Molecular Formula	C ₁₁ H ₁₄ N ₂ O ₂ S ₂	Molecular Weight	270.38 g/mol	Extinction Coefficient	68406 L/mol·cm	Solubility in Water	0.3 % 2.6 g/L	Solubility in MeOH	0.3 % 2.4 g/L	Appearance	Orange crystalline powder	Application	Blue Sensitizer in Photography
CAS-No.	35795-44-9																					
Code	12930																					
Molecular Formula	C ₁₁ H ₁₄ N ₂ O ₂ S ₂																					
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Solubility in Water	0.3 % 2.6 g/L																					
Solubility in MeOH	0.3 % 2.4 g/L																					
Appearance	Orange crystalline powder																					
Application	Blue Sensitizer in Photography																					
456 nm [MeOH] Absorption max.	 Colour of Product		3-Allyl-5-(1-methyl-2-pyridylidene)rhodanine																			
			<table><tr><td>CAS-No.</td><td>34330-15-9</td></tr><tr><td>Code</td><td>12810</td></tr><tr><td>Molecular Formula</td><td>C₁₂H₁₂N₂OS₂</td></tr><tr><td>Molecular Weight</td><td>264.37 g/mol</td></tr><tr><td>Extinction Coefficient</td><td>24480 L/mol·cm</td></tr><tr><td>Solubility in Water</td><td>0.06 % 0.6 g/L</td></tr><tr><td>Solubility in MeOH</td><td>0.9 % 6.8 g/L</td></tr><tr><td>Appearance</td><td>Orange crystalline powder</td></tr><tr><td>Application</td><td>Blue Sensitizer in Photography</td></tr></table>		CAS-No.	34330-15-9	Code	12810	Molecular Formula	C ₁₂ H ₁₂ N ₂ OS ₂	Molecular Weight	264.37 g/mol	Extinction Coefficient	24480 L/mol·cm	Solubility in Water	0.06 % 0.6 g/L	Solubility in MeOH	0.9 % 6.8 g/L	Appearance	Orange crystalline powder	Application	Blue Sensitizer in Photography
CAS-No.	34330-15-9																					
Code	12810																					
Molecular Formula	C ₁₂ H ₁₂ N ₂ OS ₂																					
Molecular Weight	264.37 g/mol																					
Extinction Coefficient	24480 L/mol·cm																					
Solubility in Water	0.06 % 0.6 g/L																					
Solubility in MeOH	0.9 % 6.8 g/L																					
Appearance	Orange crystalline powder																					
Application	Blue Sensitizer in Photography																					
458 nm [MeOH] Absorption max.	 Colour of Product		5-(4-Dimethylaminobenzylidene)rhodanine																			
			<table><tr><td>CAS-No.</td><td>536-17-4</td></tr><tr><td>Code</td><td>00360</td></tr><tr><td>Molecular Formula</td><td>C₁₂H₁₂N₂OS₂</td></tr><tr><td>Molecular Weight</td><td>264.37 g/mol</td></tr><tr><td>Extinction Coefficient</td><td>46580 L/mol·cm</td></tr><tr><td>Solubility in Water</td><td>Not determined</td></tr><tr><td>Solubility in MeOH</td><td>0.02 % 0.15 g/L</td></tr><tr><td>Appearance</td><td>Red crystalline powder</td></tr><tr><td>Application</td><td>Laser and Fluorescence Dye</td></tr></table>		CAS-No.	536-17-4	Code	00360	Molecular Formula	C ₁₂ H ₁₂ N ₂ OS ₂	Molecular Weight	264.37 g/mol	Extinction Coefficient	46580 L/mol·cm	Solubility in Water	Not determined	Solubility in MeOH	0.02 % 0.15 g/L	Appearance	Red crystalline powder	Application	Laser and Fluorescence Dye
CAS-No.	536-17-4																					
Code	00360																					
Molecular Formula	C ₁₂ H ₁₂ N ₂ OS ₂																					
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Extinction Coefficient	46580 L/mol·cm																					
Solubility in Water	Not determined																					
Solubility in MeOH	0.02 % 0.15 g/L																					
Appearance	Red crystalline powder																					
Application	Laser and Fluorescence Dye																					

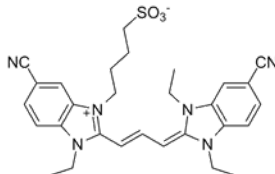
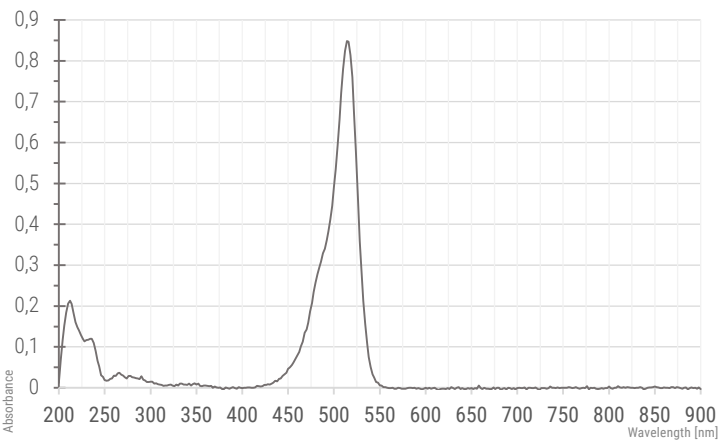
482 nm [MeOH] Absorption max.	Colour of Product		3,3'-Diethyloxacarbocyanine iodide	
			CAS-No.	905-96-4
			Code	04720
			Molecular Formula	C ₂₁ H ₂₁ N ₂ O ₂ I
			Molecular Weight	460.31 g/mol
			Extinction Coefficient	154664 L/mol·cm
			Solubility in Water	0.08 % 0.8 g/L
			Solubility in MeOH	1 % 7.4 g/L
Appearance	Magenta crystalline powder			
Application	Green Sensitizer in Photography			
486 nm [MeOH] Absorption max.	Colour of Product		3-Carboxymethyl-5-[1-(3-methyl-2-thiazolidinylidene)-2-propylidene]rhodanine sodium salt	
			CAS-No.	144940-73-8
			Code	12830
			Molecular Formula	C ₁₂ H ₁₃ N ₂ O ₃ S ₃ Na
			Molecular Weight	352.43 g/mol
			Extinction Coefficient	57303 L/mol·cm
			Solubility in Water	0.5 % 4.9 g/L
			Solubility in MeOH	0.6 % 4.9 g/L
Appearance	Reddish-orange crystalline powder			
Application	Green Sensitizer in Photography			
499 nm [MeOH] Absorption max.	Colour of Product		N-[(2,5-Bis(anilinomethylene)-cyclopentylidene)-N,N'-bis-(4-methoxyphenyl)-iminium] tetrafluoroborate	
			CAS-No.	183436-34-2
			Code	79680
			Molecular Formula	C ₃₃ H ₃₂ N ₃ O ₂ BF ₄
			Molecular Weight	589.44 g/mol
			Extinction Coefficient	72855 L/mol·cm
			Solubility in Water	0.05 % 0.4 g/L
			Solubility in MeOH	1.4 % 9.9 g/L
Appearance	Brick-red crystalline powder			
Application	Laser/Scintillation Dye			

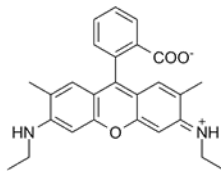
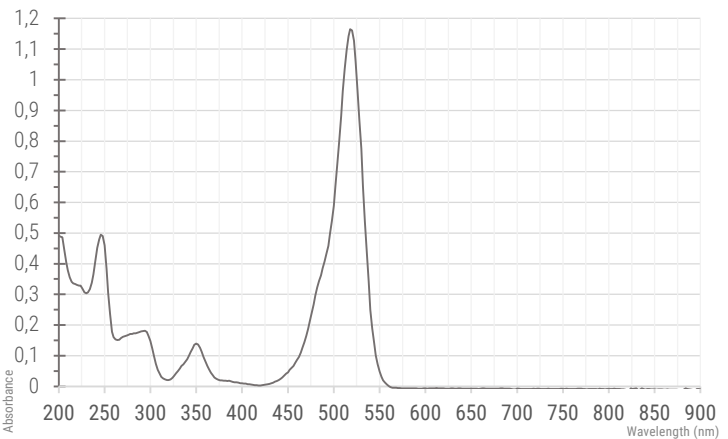
500 nm [MeOH] Absorption max.	Colour of Product 	4-[4-(4-Dimethylaminophenyl)-1,3-butadienyl]-1-ethylpyridinium perchlorate Pyridine 2																		
		<table> <tr> <td>CAS-No.</td><td>89846-21-9</td></tr> <tr> <td>Code</td><td>17530</td></tr> <tr> <td>Molecular Formula</td><td>C₁₉H₂₃N₂ClO₄</td></tr> <tr> <td>Molecular Weight</td><td>378.85 g/mol</td></tr> <tr> <td>Extinction Coefficient</td><td>40234 L/mol·cm</td></tr> <tr> <td>Solubility in Water</td><td>0.8 % 7.7 g/L</td></tr> <tr> <td>Solubility in MeOH</td><td>0.2 % 1.3 g/L</td></tr> <tr> <td>Appearance</td><td>Black crystalline powder</td></tr> <tr> <td>Application</td><td>Laser/Scintillation Dye</td></tr> </table>	CAS-No.	89846-21-9	Code	17530	Molecular Formula	C ₁₉ H ₂₃ N ₂ ClO ₄	Molecular Weight	378.85 g/mol	Extinction Coefficient	40234 L/mol·cm	Solubility in Water	0.8 % 7.7 g/L	Solubility in MeOH	0.2 % 1.3 g/L	Appearance	Black crystalline powder	Application	Laser/Scintillation Dye
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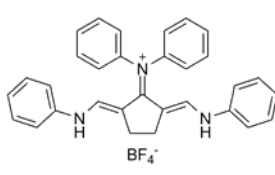
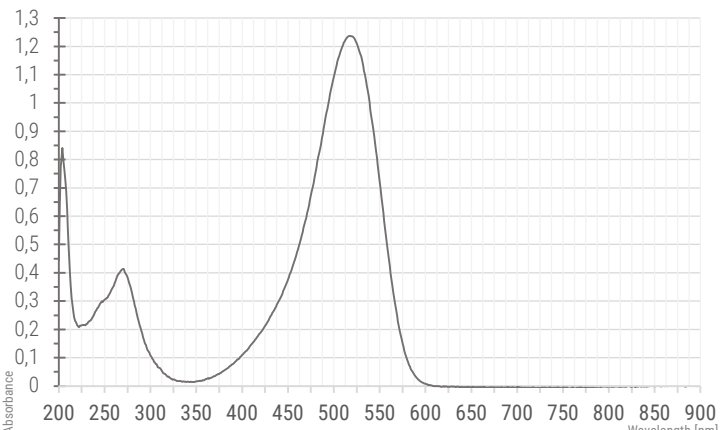
501 nm [MeOH] Absorption max.	 Colour of Product 	1-(2-Chloro-5-sulfophenyl)-3-methyl-4-(4-dimethylaminobenzylidene)-2-pyrazolin-5-one triethylammonium salt
	CAS-No.	143193-48-0
	Code	12290
	Molecular Formula	C₂₅H₃₃ClN₄O₄S
	Molecular Weight	521.06 g/mol
	Extinction Coefficient	48980 L/mol·cm
	Solubility in Water	7.5 % 74.2 g/L
	Solubility in MeOH	9.6 % 71.6 g/L
	Appearance	Red-orange crystalline powder
	Application	Green Sensitizer in Photography

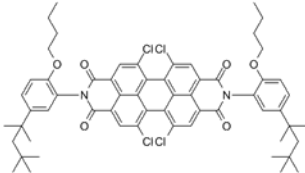
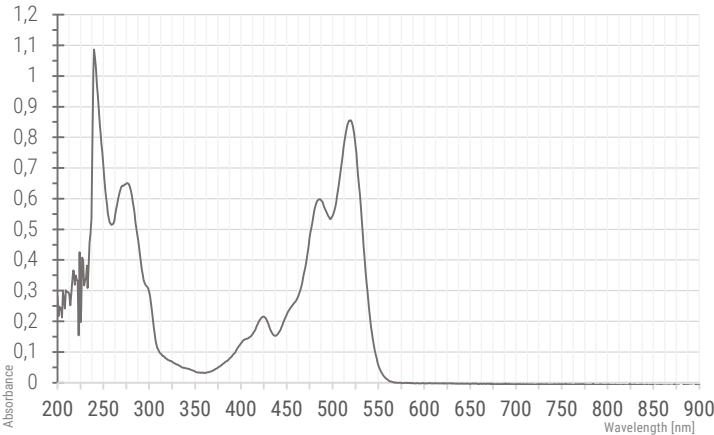
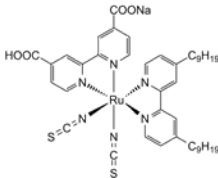
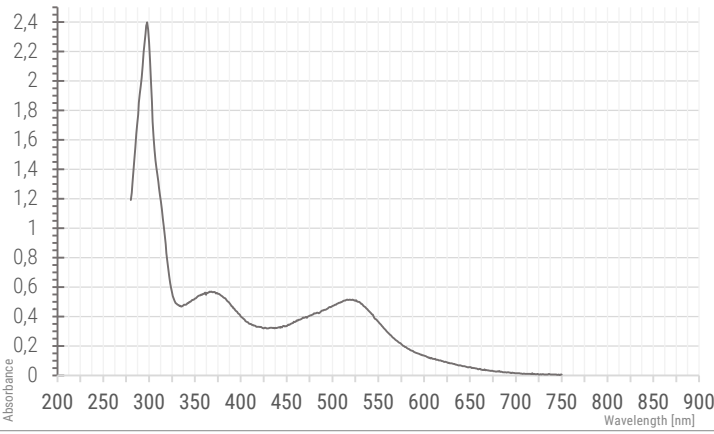
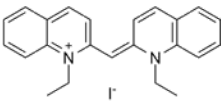
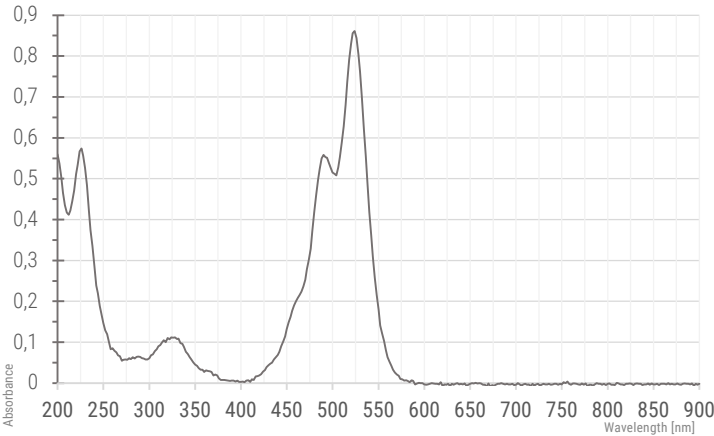
502 nm [MeOH] Absorption max.	 Colour of Product		5-Chloro-9-ethyl-5'-phenyl-3-(4-sulfobutyl)-3'-(3-sulfopropyl)oxacarbocyanine betaine sodium salt																			
			<table> <tr><td>CAS-No.</td><td>28118-05-0</td></tr> <tr><td>Code</td><td>33050</td></tr> <tr><td>Molecular Formula</td><td>C₃₂H₃₃ClN₂O₈S₂Na</td></tr> <tr><td>Molecular Weight</td><td>695.17 g/mol</td></tr> <tr><td>Extinction Coefficient</td><td>96490 L/mol·cm</td></tr> <tr><td>Solubility in Water</td><td>3 % 30 g/l</td></tr> <tr><td>Solubility in MeOH</td><td>3.5 % 27 g/l</td></tr> <tr><td>Appearance</td><td>Orange-red crystalline powder</td></tr> <tr><td>Application</td><td>Green Sensitizer in Photography</td></tr> </table>	CAS-No.	28118-05-0	Code	33050	Molecular Formula	C ₃₂ H ₃₃ ClN ₂ O ₈ S ₂ Na	Molecular Weight	695.17 g/mol	Extinction Coefficient	96490 L/mol·cm	Solubility in Water	3 % 30 g/l	Solubility in MeOH	3.5 % 27 g/l	Appearance	Orange-red crystalline powder	Application	Green Sensitizer in Photography	
CAS-No.	28118-05-0																					
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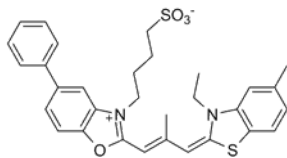
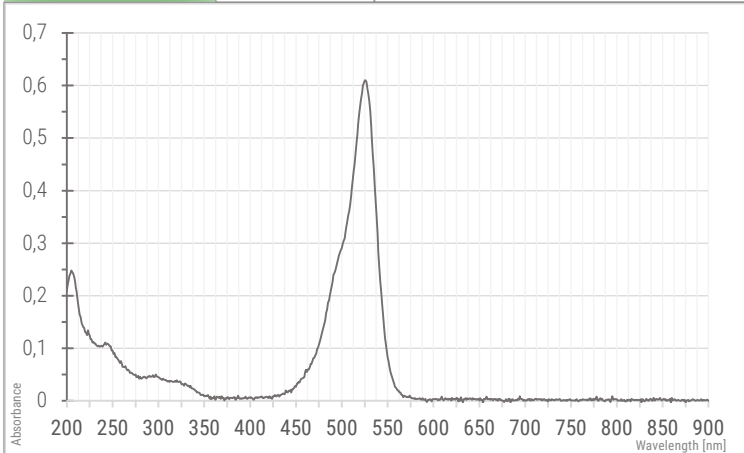
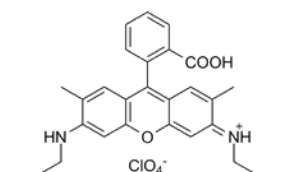
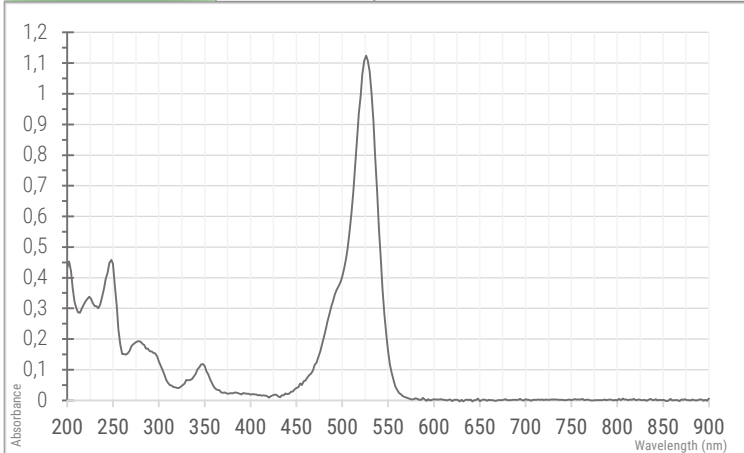
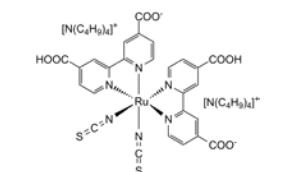
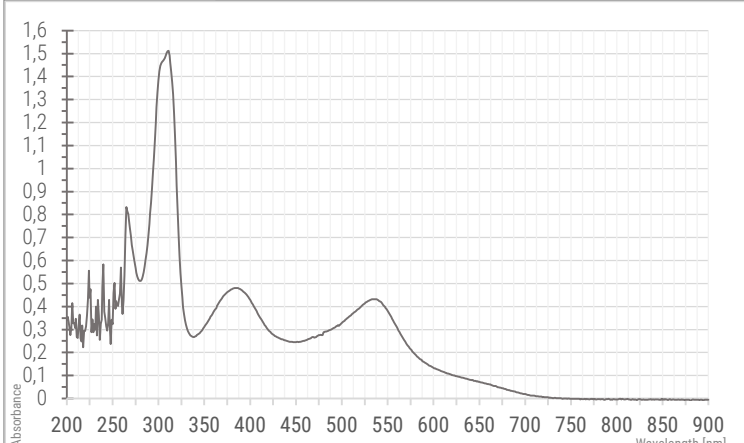
503 nm [MeOH] Absorption max.	 Colour of Product	 5,5'-Diphenyl-3,3',9-triethyloxacarbo-cyanine ethylsulfate	<table><tr><td>CAS-No.</td><td>41503-61-1</td></tr><tr><td>Code</td><td>12680</td></tr><tr><td>Molecular Formula</td><td>C₃₇H₃₈N₂O₆S</td></tr><tr><td>Molecular Weight</td><td>638.80 g/mol</td></tr><tr><td>Extinction Coefficient</td><td>168119 L/mol·cm</td></tr><tr><td>Solubility in Water</td><td>0.02 % 0.2 g/l</td></tr><tr><td>Solubility in MeOH</td><td>2.1 % 16.2 g/l</td></tr><tr><td>Appearance</td><td>Magenta-red lustrous crystalline powder</td></tr><tr><td>Application</td><td>Green Sensitizer in Photography</td></tr></table>	CAS-No.	41503-61-1	Code	12680	Molecular Formula	C ₃₇ H ₃₈ N ₂ O ₆ S	Molecular Weight	638.80 g/mol	Extinction Coefficient	168119 L/mol·cm	Solubility in Water	0.02 % 0.2 g/l	Solubility in MeOH	2.1 % 16.2 g/l	Appearance	Magenta-red lustrous crystalline powder	Application	Green Sensitizer in Photography
CAS-No.	41503-61-1																				
Code	12680																				
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Appearance	Magenta-red lustrous crystalline powder																				
Application	Green Sensitizer in Photography																				
504 nm [MeOH] Absorption max.	 Colour of Product	 3,3'-Bis(4-sulfobutyl)-5,5'-diphenyl-9-ethyloxacarbo-cyanine betaine sodium salt	<table><tr><td>CAS-No.</td><td>35501-76-9</td></tr><tr><td>Code</td><td>12840</td></tr><tr><td>Molecular Formula</td><td>C₃₉H₃₉N₂O₈S₂Na</td></tr><tr><td>Molecular Weight</td><td>750.87 g/mol</td></tr><tr><td>Extinction Coefficient</td><td>145068 L/mol·cm</td></tr><tr><td>Solubility in Water</td><td>3.5 % 27 g/L</td></tr><tr><td>Solubility in MeOH</td><td>0.4 % 4 g/L</td></tr><tr><td>Appearance</td><td>Reddish-orange crystalline powder</td></tr><tr><td>Application</td><td>Green Sensitizer in Photography</td></tr></table>	CAS-No.	35501-76-9	Code	12840	Molecular Formula	C ₃₉ H ₃₉ N ₂ O ₈ S ₂ Na	Molecular Weight	750.87 g/mol	Extinction Coefficient	145068 L/mol·cm	Solubility in Water	3.5 % 27 g/L	Solubility in MeOH	0.4 % 4 g/L	Appearance	Reddish-orange crystalline powder	Application	Green Sensitizer in Photography
CAS-No.	35501-76-9																				
Code	12840																				
Molecular Formula	C ₃₉ H ₃₉ N ₂ O ₈ S ₂ Na																				
Molecular Weight	750.87 g/mol																				
Extinction Coefficient	145068 L/mol·cm																				
Solubility in Water	3.5 % 27 g/L																				
Solubility in MeOH	0.4 % 4 g/L																				
Appearance	Reddish-orange crystalline powder																				
Application	Green Sensitizer in Photography																				
504 nm [MeOH] Absorption max.	 Colour of Product	 3,3'-Bis(2-sulfatoethyl)-5,5'-diphenyl-9-ethyloxacarbo-cyanine betaine	<table><tr><td>CAS-No.</td><td>27746-90-3</td></tr><tr><td>Code</td><td>19640</td></tr><tr><td>Molecular Formula</td><td>C₃₅H₃₂N₂O₁₀S₂</td></tr><tr><td>Molecular Weight</td><td>704.78 g/mol</td></tr><tr><td>Extinction Coefficient</td><td>141097 L/mol·cm</td></tr><tr><td>Solubility in Water</td><td>0.3 % 3 g/L</td></tr><tr><td>Solubility in MeOH</td><td>0.4 % 3 g/L</td></tr><tr><td>Appearance</td><td>Red crystalline powder</td></tr><tr><td>Application</td><td>Green Sensitizer in Photography</td></tr></table>	CAS-No.	27746-90-3	Code	19640	Molecular Formula	C ₃₅ H ₃₂ N ₂ O ₁₀ S ₂	Molecular Weight	704.78 g/mol	Extinction Coefficient	141097 L/mol·cm	Solubility in Water	0.3 % 3 g/L	Solubility in MeOH	0.4 % 3 g/L	Appearance	Red crystalline powder	Application	Green Sensitizer in Photography
CAS-No.	27746-90-3																				
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Molecular Formula	C ₃₅ H ₃₂ N ₂ O ₁₀ S ₂																				
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Solubility in Water	0.3 % 3 g/L																				
Solubility in MeOH	0.4 % 3 g/L																				
Appearance	Red crystalline powder																				
Application	Green Sensitizer in Photography																				

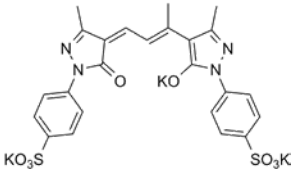
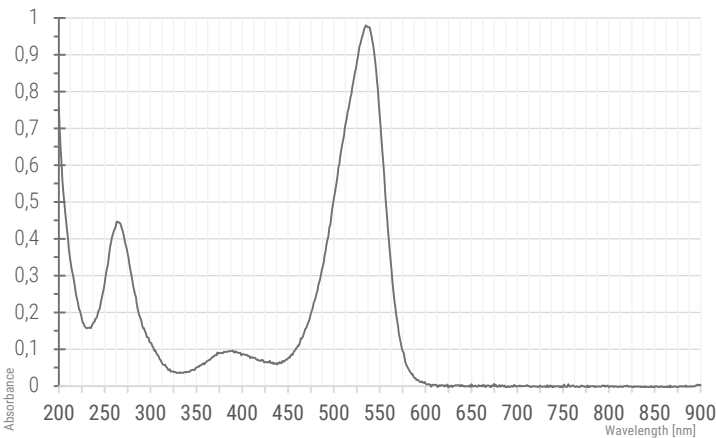
514 nm [MeOH] Absorption max.	 Colour of Product		5,5'-Dicyano-3-(4-sulfobutyl)- 1,1',3'-triethylimidacarbocyanine betaine	
			CAS-No.	32634-36-9
			Code	12850
			Molecular Formula	C₂₉H₃₂N₆O₃S
			Molecular Weight	544.68 g/mol
			Extinction Coefficient	92374 L/mol·cm
			Solubility in Water	1.6 % 15.8 g/L
			Solubility in MeOH	1.9 % 14.8 g/L
			Appearance	Dark-red crystalline powder
Application	Green Sensitizer in Photography			

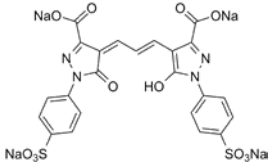
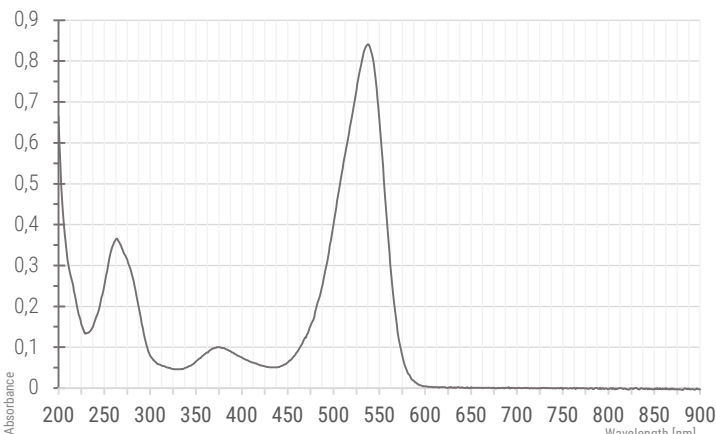
518 nm [MeOH] Absorption max.	 Colour of Product		3,6-Bis(ethylamino)-9-(2-carboxyphenyl)- 2,7-dimethyl-3H-xanthylium betaine Rhodamine 19	
			CAS-No.	25152-49-2
			Code	06170
			Molecular Formula	C₂₆H₂₆N₂O₃
			Molecular Weight	414.51 g/mol
			Extinction Coefficient	97573 L/mol·cm
			Solubility in Water	0.07 % 0.7 g/L
			Solubility in MeOH	0.6 % 4.7 g/L
			Appearance	Coral-red crystalline powder
Application	Laser/Scintillation Dye			

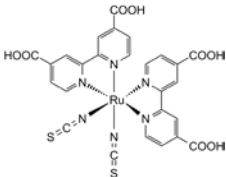
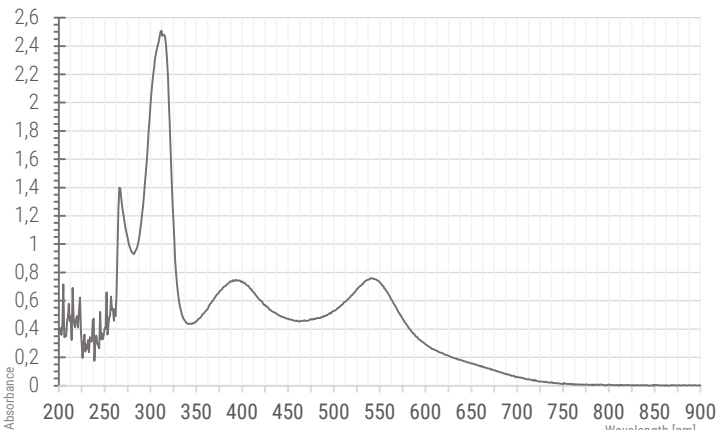
518 nm [MeOH] Absorption max.	 Colour of Product		N-[2,5-Bis(anilinomethylene)cyclopentylidene]- N-phenylanilinium tetrafluoroborate	
			CAS-No.	177168-18-2
			Code	77280
			Molecular Formula	C₃₁H₂₈N₃BF₄
			Molecular Weight	529.39 g/mol
			Extinction Coefficient	67127 L/mol·cm
			Solubility in Water	0.08 % 0.75 g/L
			Solubility in MeOH	0.96 % 7 g/L
			Appearance	Wine-red crystals
Application	Laser/Scintillation Dye			

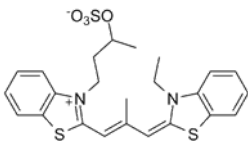
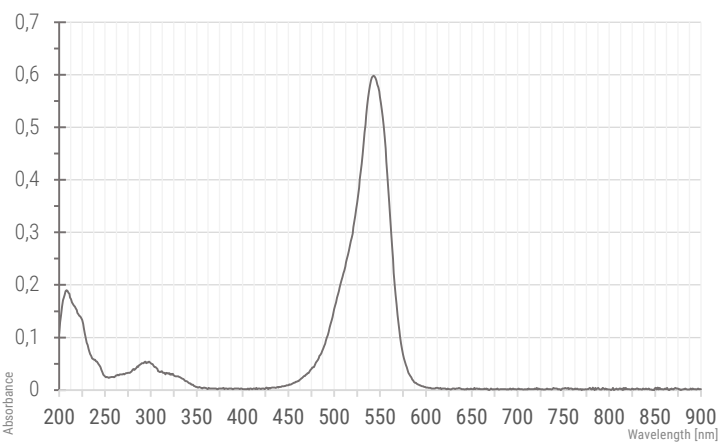
520 nm [MeOH] Absorption max.	Colour of Product 		N,N'-Di-(2-butoxy-5-tert-octyl-phenyl)- 1,6,7,12-tetrachloroperylene- 3,4,9,10-tetracarboxylic diimide	
			CAS-No.	1510824-40-4
			Code	69460
			Molecular Formula	C₆₀H₆₂Cl₄N₂O₆
			Molecular Weight	1048.97 g/mol
			Extinction Coefficient	45001 L/mol·cm
			Solubility in Water	Not determined
			Solubility in MeOH	0.15 % 1.2 g/L
			Appearance	Orange to red crystalline powder
Application	Energy Relay Dye			
521 nm [MeOH] Absorption max.	Colour of Product 		Dye Z907	
			CAS-No.	871466-65-8
			Code	11092
			Molecular Formula	C₄₂H₅₁N₆O₄RuS₂Na
			Molecular Weight	892.08 g/mol
			Extinction Coefficient	9313 L/mol·cm
			Solubility in Water	0.3 % 3 g/L
			Solubility in MeOH	3.5 % 28.6 g/L
			Appearance	Dark-brown to black crystalline powder
Application	Dye for DSSC			
524 nm [MeOH] Absorption max.	Colour of Product 		1,1'-Diethyl-2,2'-cyanine iodide	
			CAS-No.	977-96-8
			Code	12740
			Molecular Formula	C₂₃H₂₃NI
			Molecular Weight	454.36 g/mol
			Extinction Coefficient	78236 L/mol·cm
			Solubility in Water	0.01 % 0.1 g/L
			Solubility in MeOH	0.6 % 5 g/L
			Appearance	Dark-red to reddish brown crystalline powder
Application	Green Sensitizer in Photography			

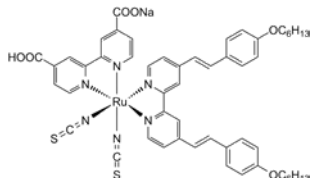
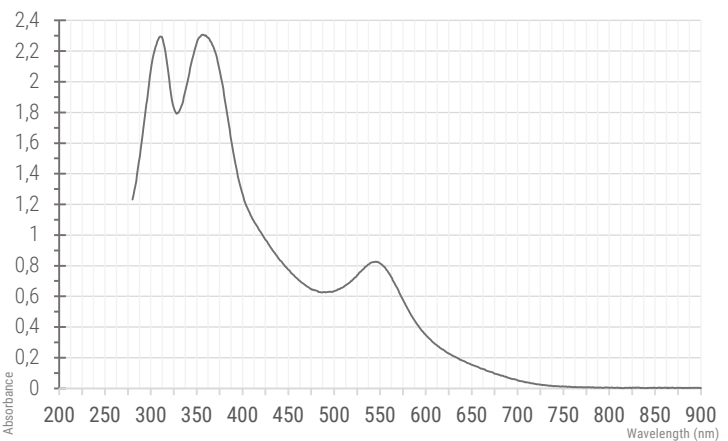
526 nm [MeOH] Absorption max.	 Colour of Product		5,9-Dimethyl-3-ethyl-5'-phenyl-3'-(4-sulfobutyl)oxathiacyanocyanine betaine																			
			<table><tr><td>CAS-No.</td><td>77837-26-4</td></tr><tr><td>Code</td><td>12690</td></tr><tr><td>Molecular Formula</td><td>C₃₁H₃₂N₂O₄S₂</td></tr><tr><td>Molecular Weight</td><td>560.73 g/mol</td></tr><tr><td>Extinction Coefficient</td><td>136818 L/mol·cm</td></tr><tr><td>Solubility in Water</td><td>0.13 % 1.1 g/L</td></tr><tr><td>Solubility in MeOH</td><td>0.5 % 3.3 g/L</td></tr><tr><td>Appearance</td><td>Dark-red crystalline powder</td></tr><tr><td>Application</td><td>Green Sensitizer in Photography</td></tr></table>		CAS-No.	77837-26-4	Code	12690	Molecular Formula	C ₃₁ H ₃₂ N ₂ O ₄ S ₂	Molecular Weight	560.73 g/mol	Extinction Coefficient	136818 L/mol·cm	Solubility in Water	0.13 % 1.1 g/L	Solubility in MeOH	0.5 % 3.3 g/L	Appearance	Dark-red crystalline powder	Application	Green Sensitizer in Photography
CAS-No.	77837-26-4																					
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Application	Green Sensitizer in Photography																					
526 nm [MeOH] Absorption max.	 Colour of Product		3,6-Bis(ethylamino)-9-(2-carboxyphenyl)-2,7-dimethyl-3H-xanthylium perchlorate Rhodamine 19P																			
			<table><tr><td>CAS-No.</td><td>62669-66-3</td></tr><tr><td>Code</td><td>17590</td></tr><tr><td>Molecular Formula</td><td>C₂₆H₂₇N₂O₇Cl</td></tr><tr><td>Molecular Weight</td><td>514.96 g/mol</td></tr><tr><td>Extinction Coefficient</td><td>115763 L/mol·cm</td></tr><tr><td>Solubility in Water</td><td>0.05 % 0.5 g/L</td></tr><tr><td>Solubility in MeOH</td><td>6 % 46.7 g/L</td></tr><tr><td>Appearance</td><td>Orange-brown crystalline powder</td></tr><tr><td>Application</td><td>Laser/Scintillation Dye</td></tr></table>		CAS-No.	62669-66-3	Code	17590	Molecular Formula	C ₂₆ H ₂₇ N ₂ O ₇ Cl	Molecular Weight	514.96 g/mol	Extinction Coefficient	115763 L/mol·cm	Solubility in Water	0.05 % 0.5 g/L	Solubility in MeOH	6 % 46.7 g/L	Appearance	Orange-brown crystalline powder	Application	Laser/Scintillation Dye
CAS-No.	62669-66-3																					
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Appearance	Orange-brown crystalline powder																					
Application	Laser/Scintillation Dye																					
535 nm [MeOH] Absorption max.	 Colour of Product		Dye N719																			
			<table><tr><td>CAS-No.</td><td>207347-46-4</td></tr><tr><td>Code</td><td>11070</td></tr><tr><td>Molecular Formula</td><td>C₅₈H₈₆N₈O₈RuS₂</td></tr><tr><td>Molecular Weight</td><td>1188.55 g/mol</td></tr><tr><td>Extinction Coefficient</td><td>10150 L/mol·cm</td></tr><tr><td>Solubility in Water</td><td>2.2 % 21 g/L</td></tr><tr><td>Solubility in MeOH</td><td>5.4 % 43 g/L</td></tr><tr><td>Appearance</td><td>Dark-reddish brown crystalline powder</td></tr><tr><td>Application</td><td>Dye for DSSC</td></tr></table>		CAS-No.	207347-46-4	Code	11070	Molecular Formula	C ₅₈ H ₈₆ N ₈ O ₈ RuS ₂	Molecular Weight	1188.55 g/mol	Extinction Coefficient	10150 L/mol·cm	Solubility in Water	2.2 % 21 g/L	Solubility in MeOH	5.4 % 43 g/L	Appearance	Dark-reddish brown crystalline powder	Application	Dye for DSSC
CAS-No.	207347-46-4																					
Code	11070																					
Molecular Formula	C ₅₈ H ₈₆ N ₈ O ₈ RuS ₂																					
Molecular Weight	1188.55 g/mol																					
Extinction Coefficient	10150 L/mol·cm																					
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Appearance	Dark-reddish brown crystalline powder																					
Application	Dye for DSSC																					

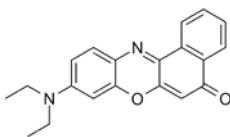
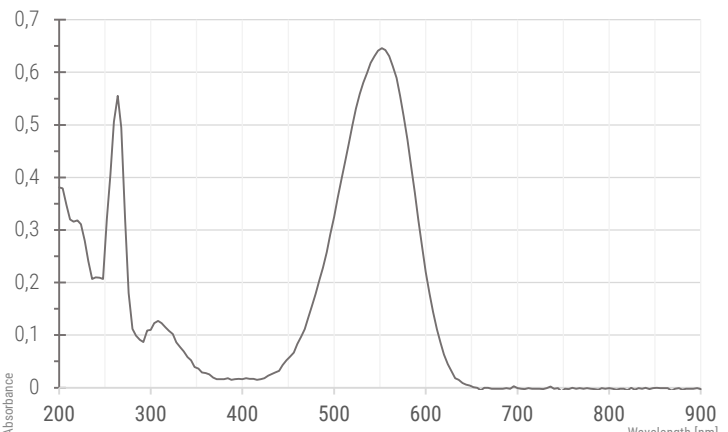
535 nm [MeOH] Absorption max.	Colour of Product		1,1'-Bis(4-sulfophenyl)-5,5'-dihydroxy-3,3',a-trimethylpyrazolo-4,4'-trimethine oxonole tripotassium salt	
			CAS-No.	92050-35-6
			Code	12320
			Molecular Formula	C₂₄H₁₉N₄O₈S₂K₃
			Molecular Weight	672.84 g/mol
			Extinction Coefficient	65856 L/mol·cm
			Solubility in Water	7.8 % 80 g/L
			Solubility in MeOH	1 % 7.4 g/L
			Appearance	Dark-red crystalline powder
			Application	Filter Dye in Photography

538 nm [MeOH] Absorption max.	Colour of Product		1,1'-Bis(4-sulfophenyl)-3,3'-dicarboxy-5,5'-dihydroxypyrazolo-4,4'-trimethine oxonole tetrasodium salt	
			CAS-No.	70024-44-1
			Code	05290
			Molecular Formula	C₂₃H₁₆N₄O₁₂S₂Na₄
			Molecular Weight	692.46 g/mol
			Extinction Coefficient	7133 L/mol·cm
			Solubility in Water	9 % 93 g/L
			Solubility in MeOH	1 % 8 g/L
			Appearance	Wine-red crystalline powder
			Application	Filter Dye in Photography

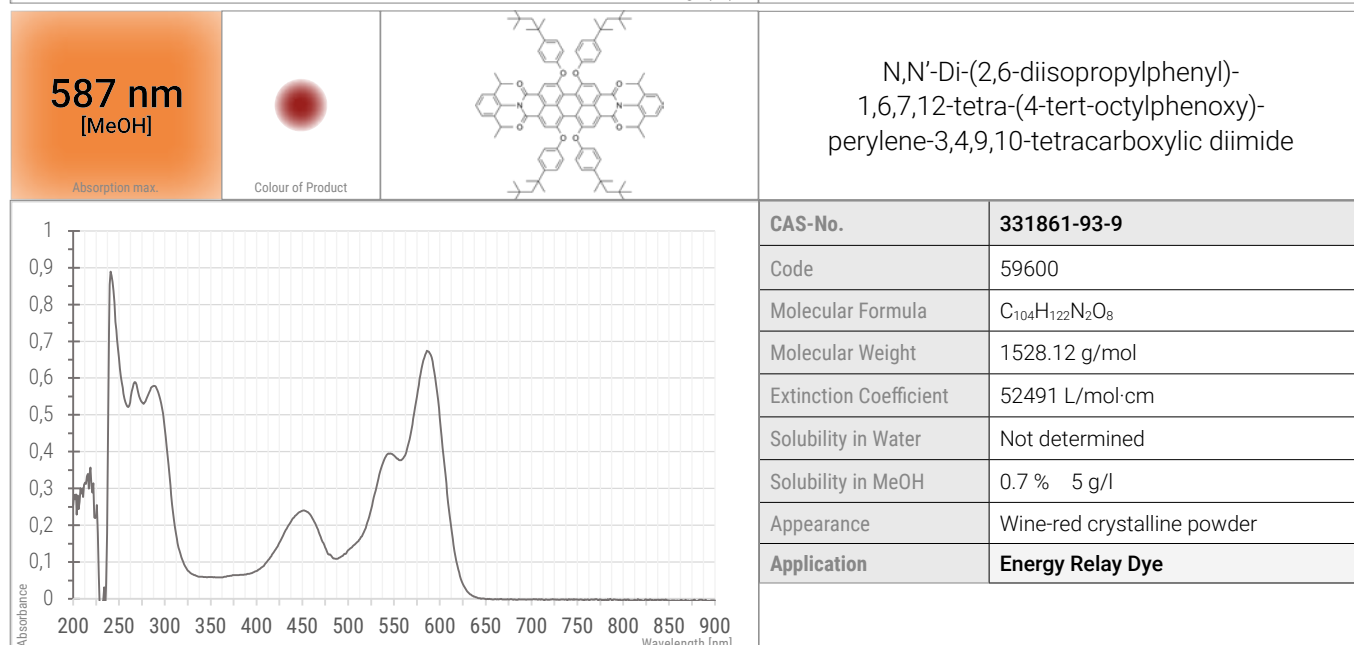
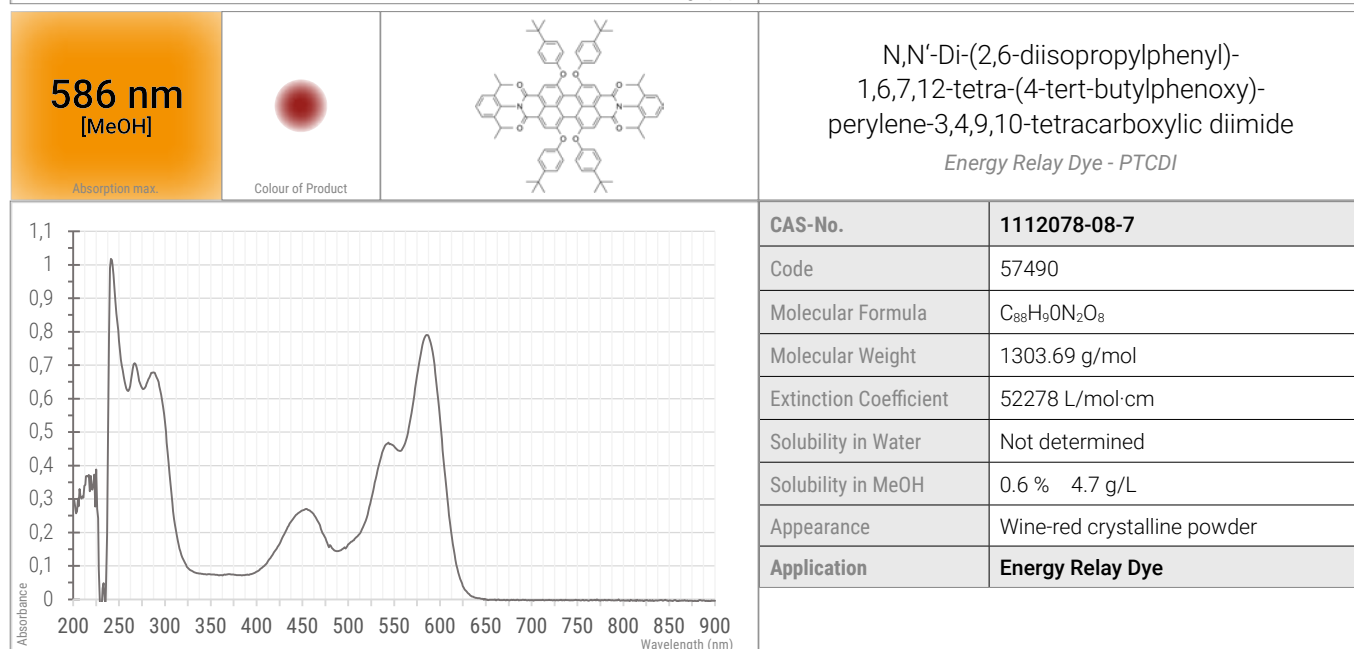
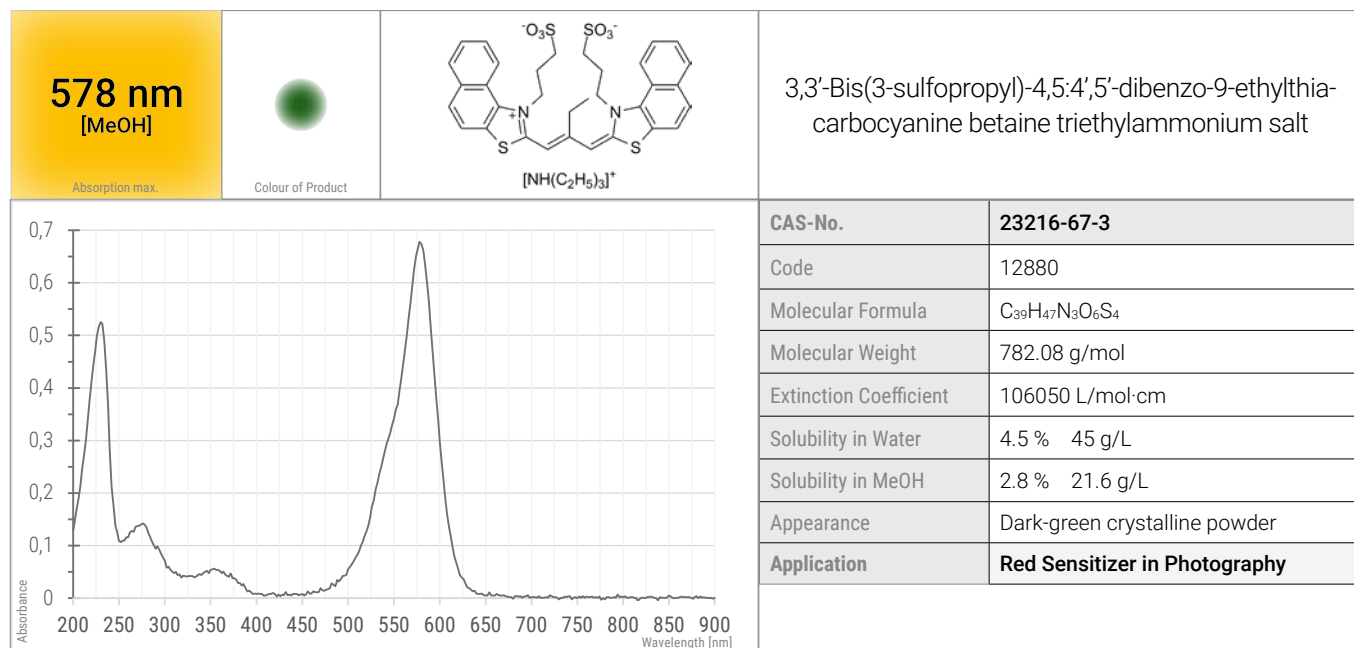
540 nm [MeOH] Absorption max.	Colour of Product		Dye N3	
			CAS-No.	141460-19-7
			Code	11060
			Molecular Formula	C₂₆H₁₆N₆O₈RuS₂
			Molecular Weight	705.63 g/mol
			Extinction Coefficient	10824 L/mol·cm
			Solubility in Water	0.06 % 0.6 g/L
			Solubility in MeOH	0.8 % 6.4 g/L
			Appearance	Dark-blue to black crystalline powder
			Application	Dye for DSSC

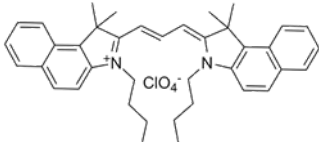
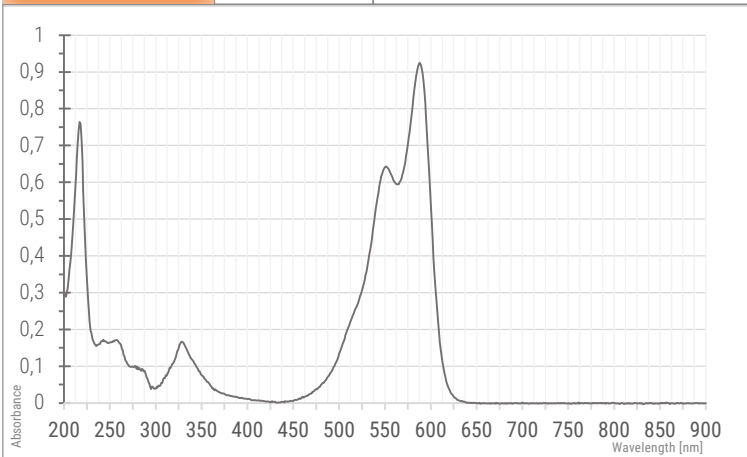
543 nm [MeOH] Absorption max.	 Colour of Product		3-Ethyl-9-methyl-3'-(3-sulfatobutyl) thiacarbocyanine betaine	
			CAS-No.	52525-55-0
			Code	12860
			Molecular Formula	C₂₄H₂₆N₂O₄S₃
			Molecular Weight	502.68 g/mol
			Extinction Coefficient	128681 L/mol·cm
			Solubility in Water	0.8 % 7.4 g/L
			Solubility in MeOH	1.5 % 12.3 g/L
			Appearance	Reddish-brown crystalline powder
			Application	Red Sensitizer in Photography

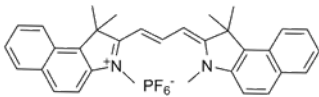
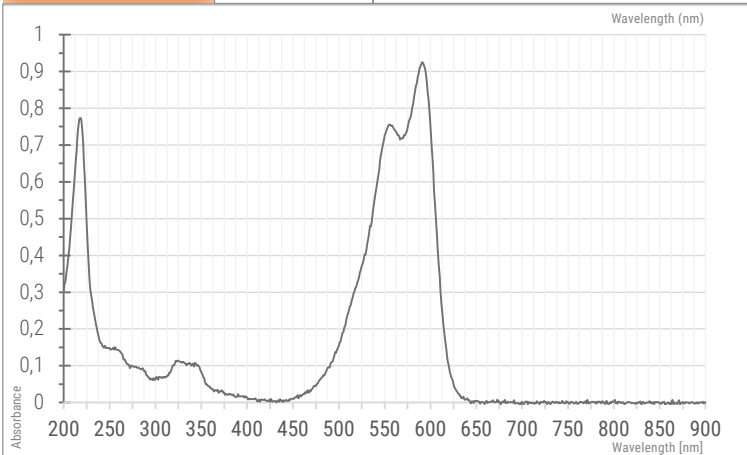
545 nm [MeOH] Absorption max.	 Colour of Product		Bestseller Dye K19	
			CAS-No.	N/A
			Code	59780
			Molecular Formula	C₅₂H₅₁N₆O₆RuS₂Na
			Molecular Weight	1044.19 g/mol
			Extinction Coefficient	17334 L/mol·cm
			Solubility in Water	0.15 % 1.5 g/L
			Solubility in MeOH	1.3 % 9.5 g/L
			Appearance	Dark-brown to black crystalline powder
			Application	Dye for DSSC

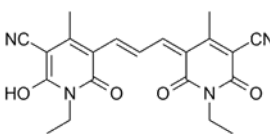
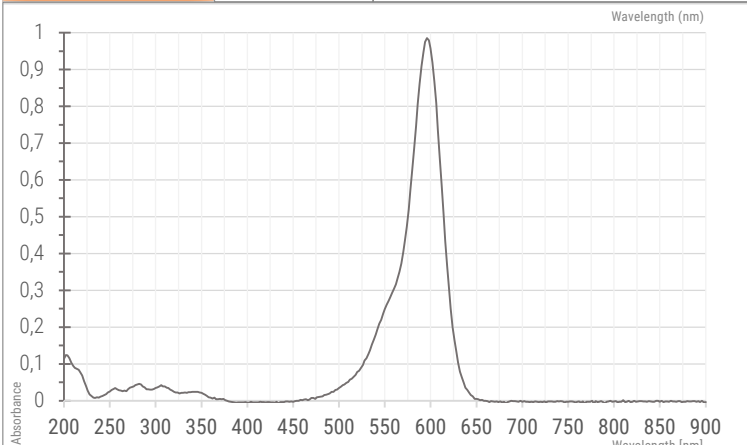
552 nm [MeOH] Absorption max.	 Colour of Product		9-Diethylaminobenzo[a]phenoxazone Nile Red	
			CAS-No.	7385-67-3
			Code	17440
			Molecular Formula	C₂₀H₁₈N₂O₂
			Molecular Weight	318.38 g/mol
			Extinction Coefficient	20567 L/mol·cm
			Solubility in Water	0.01 % 0.1 g/L
			Solubility in MeOH	0.2 % 9.1 g/L
			Appearance	Dark-green crystalline powder
			Application	Laser/Scintillation Dye

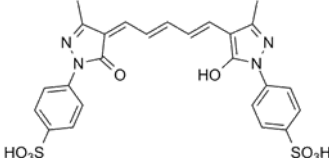
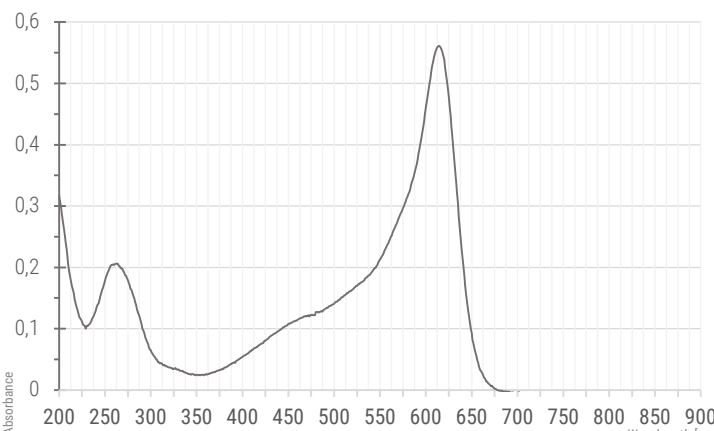
555 nm [MeOH] Absorption max.	Colour of Product		2-(4-Dimethylaminostyryl)-6-sulfo-1,3,3-trimethylindolium betaine	<table><tr><td>CAS-No.</td><td>143239-22-9</td></tr><tr><td>Code</td><td>12330</td></tr><tr><td>Molecular Formula</td><td>C₂₁H₂₄N₂O₃S</td></tr><tr><td>Molecular Weight</td><td>384.51 g/mol</td></tr><tr><td>Extinction Coefficient</td><td>94897 L/mol·cm</td></tr><tr><td>Solubility in Water</td><td>8.7 % 84.9 g/L</td></tr><tr><td>Solubility in MeOH</td><td>2 % 15.8 g/L</td></tr><tr><td>Appearance</td><td>Dark-blue crystalline powder</td></tr><tr><td>Application</td><td>Filter Dye in Photography</td></tr></table>	CAS-No.	143239-22-9	Code	12330	Molecular Formula	C ₂₁ H ₂₄ N ₂ O ₃ S	Molecular Weight	384.51 g/mol	Extinction Coefficient	94897 L/mol·cm	Solubility in Water	8.7 % 84.9 g/L	Solubility in MeOH	2 % 15.8 g/L	Appearance	Dark-blue crystalline powder	Application	Filter Dye in Photography
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Appearance	Dark-blue crystalline powder																					
Application	Filter Dye in Photography																					
565 nm [MeOH] Absorption max.	Colour of Product		3,3'-Bis(2-hydroxyethyl)-5,5'-dimethoxy-9-ethylthiacarbocyanine bromide	<table><tr><td>CAS-No.</td><td>13085-73-9</td></tr><tr><td>Code</td><td>30080</td></tr><tr><td>Molecular Formula</td><td>C₂₅H₂₉N₂O₄S₂Br</td></tr><tr><td>Molecular Weight</td><td>565.55 g/mol</td></tr><tr><td>Extinction Coefficient</td><td>122951 L/mol·cm</td></tr><tr><td>Solubility in Water</td><td>0.1 % 1 g/L</td></tr><tr><td>Solubility in MeOH</td><td>0.2 % 1.8 g/L</td></tr><tr><td>Appearance</td><td>Olive-green crystalline powder</td></tr><tr><td>Application</td><td>Red Sensitizer in Photography</td></tr></table>	CAS-No.	13085-73-9	Code	30080	Molecular Formula	C ₂₅ H ₂₉ N ₂ O ₄ S ₂ Br	Molecular Weight	565.55 g/mol	Extinction Coefficient	122951 L/mol·cm	Solubility in Water	0.1 % 1 g/L	Solubility in MeOH	0.2 % 1.8 g/L	Appearance	Olive-green crystalline powder	Application	Red Sensitizer in Photography
CAS-No.	13085-73-9																					
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Appearance	Olive-green crystalline powder																					
Application	Red Sensitizer in Photography																					
575 nm [MeOH] Absorption max.	Colour of Product		N,N'-Di-(2,6-diisopropylphenyl)-1,6,7,12-tetraphen-oxyperylene-3,4,9,10-tetracarboxylic diimide	<table><tr><td>CAS-No.</td><td>123174-58-3</td></tr><tr><td>Code</td><td>58890</td></tr><tr><td>Molecular Formula</td><td>C₇₂H₅₈N₂O₈</td></tr><tr><td>Molecular Weight</td><td>1079.26 g/mol</td></tr><tr><td>Extinction Coefficient</td><td>50887 L/mol·cm</td></tr><tr><td>Solubility in Water</td><td>Not determined</td></tr><tr><td>Solubility in MeOH</td><td>0.05 % 0.34 g/L</td></tr><tr><td>Appearance</td><td>Wine-red crystalline powder</td></tr><tr><td>Application</td><td>Energy Relay Dye</td></tr></table>	CAS-No.	123174-58-3	Code	58890	Molecular Formula	C ₇₂ H ₅₈ N ₂ O ₈	Molecular Weight	1079.26 g/mol	Extinction Coefficient	50887 L/mol·cm	Solubility in Water	Not determined	Solubility in MeOH	0.05 % 0.34 g/L	Appearance	Wine-red crystalline powder	Application	Energy Relay Dye
CAS-No.	123174-58-3																					
Code	58890																					
Molecular Formula	C ₇₂ H ₅₈ N ₂ O ₈																					
Molecular Weight	1079.26 g/mol																					
Extinction Coefficient	50887 L/mol·cm																					
Solubility in Water	Not determined																					
Solubility in MeOH	0.05 % 0.34 g/L																					
Appearance	Wine-red crystalline powder																					
Application	Energy Relay Dye																					

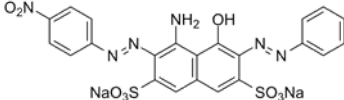
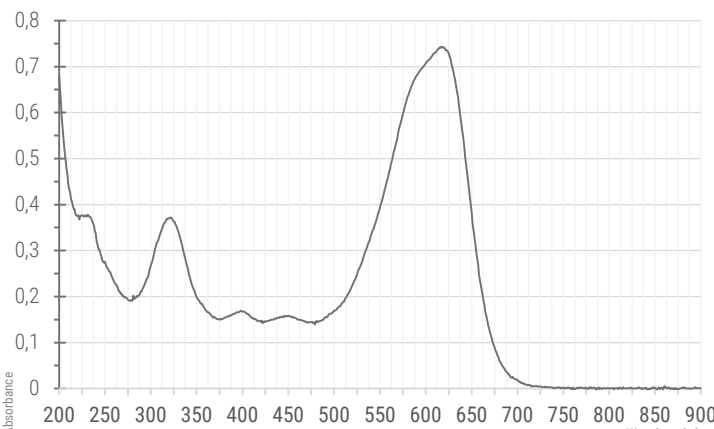


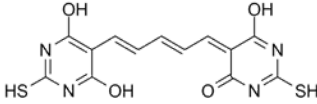
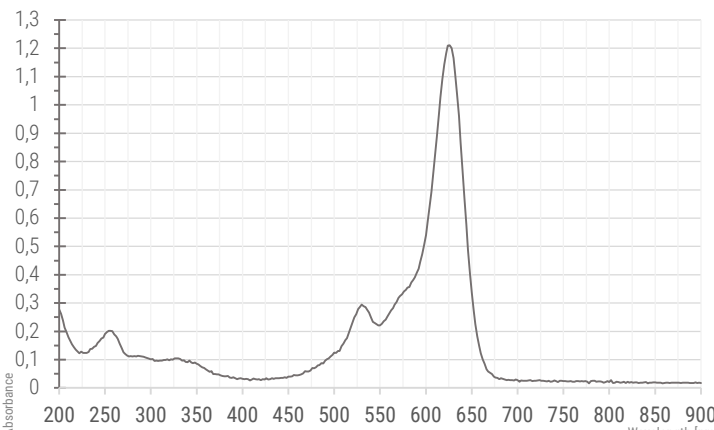
588 nm [MeOH] Absorption max.	 Colour of Product		4,5:4',5'-Dibenzo-1,1'-dibutyl-3,3,3',3'-tetramethyl-indacarbocyanine perchlorate	
			CAS-No.	189189-12-6
			Code	06870
			Molecular Formula	C₃₉H₄₅N₂ClO₄
			Molecular Weight	641.25 g/mol
			Extinction Coefficient	118631 L/mol·cm
			Solubility in Water	Insoluble
			Solubility in MeOH	0.2 % 1.3 g/L
			Appearance	Green crystalline powder
			Application	Dye for Optical Disc

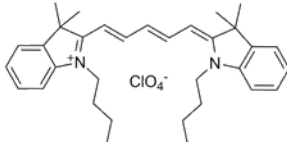
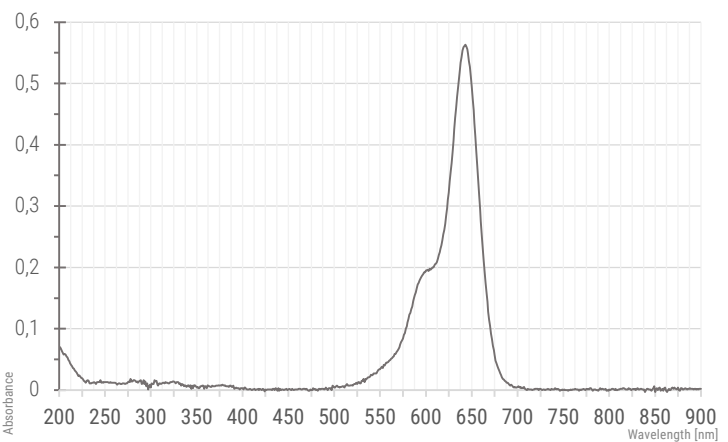
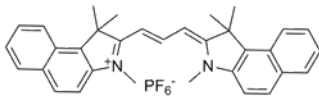
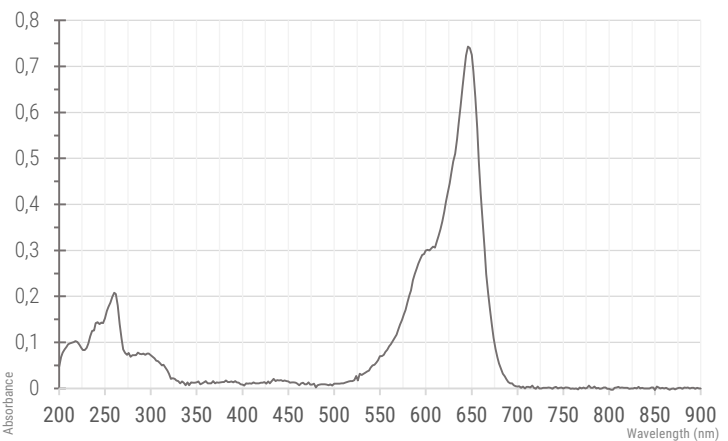
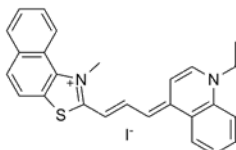
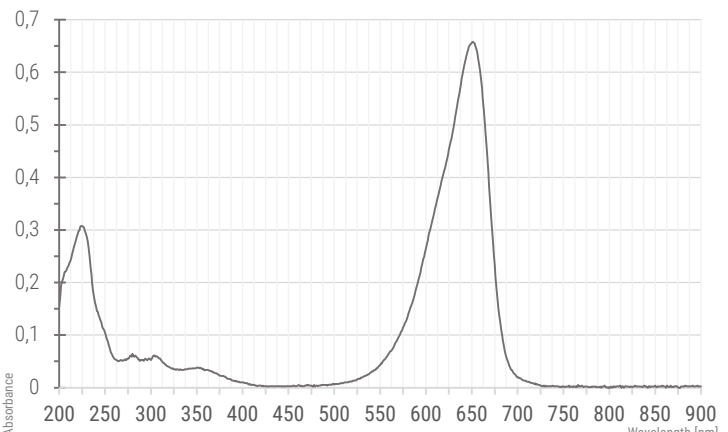
591 nm [MeOH] Absorption max.	 Colour of Product		4,5:6',7'-Dibenzo-1,1',3,3,3',3'-hexamethylinda-carbocyanine hexafluorophosphate	
			CAS-No.	365514-36-9
			Code	11710
			Molecular Formula	C₃₃H₃₃N₂PF₆
			Molecular Weight	602.60 g/mol
			Extinction Coefficient	110035 L/mol·cm
			Solubility in Water	0.02 % 0.2 g/L
			Solubility in MeOH	0.1 % 0.8 g/L
			Appearance	Dark-green crystalline powder
			Application	Dye for Optical Disc

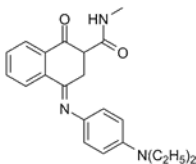
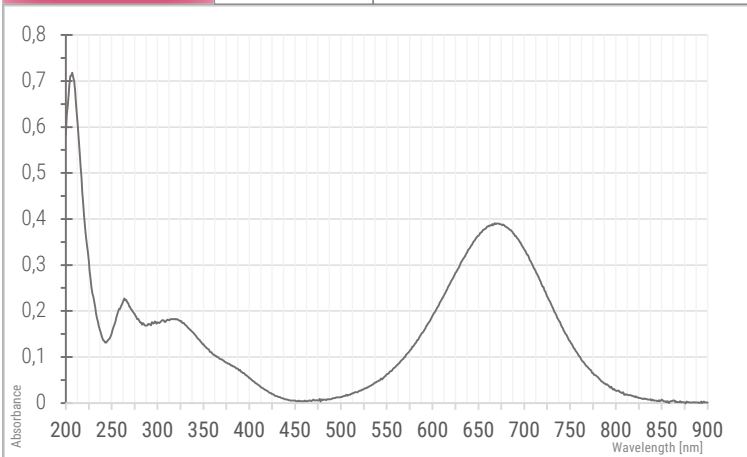
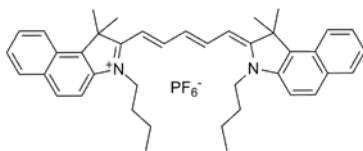
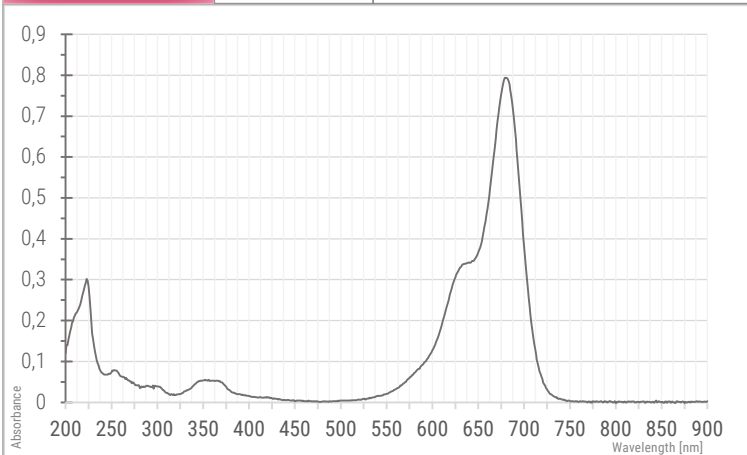
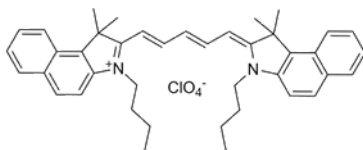
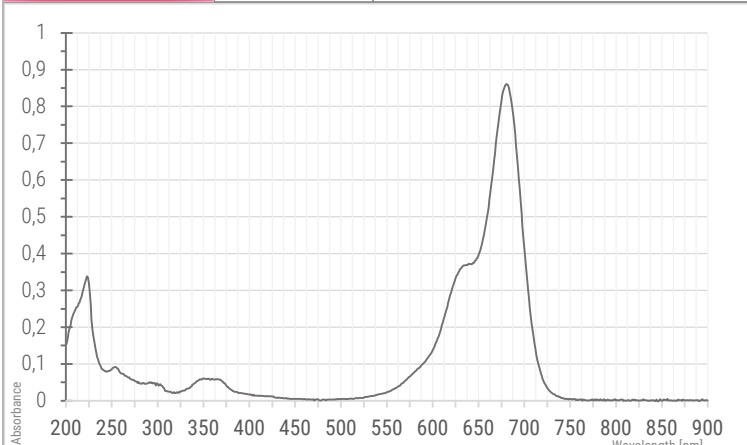
596 nm [MeOH] Absorption max.	 Colour of Product		5,5'-Bis(3-cyano-1-ethyl-4-methyl-6-oxo-2-pyridone) trimethine oxonole	
			CAS-No.	28172-08-9
			Code	00790
			Molecular Formula	C₂₁H₂₀N₄O₄
			Molecular Weight	392.42 g/mol
			Extinction Coefficient	154613 L/mol·cm
			Solubility in Water	4.1 % 40.7 g/L
			Solubility in MeOH	0.5 % 3.9 g/L
			Appearance	Dark-blue crystalline powder
			Application	Filter Dye in Photography

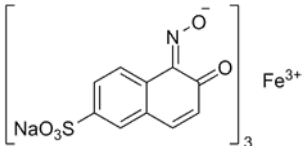
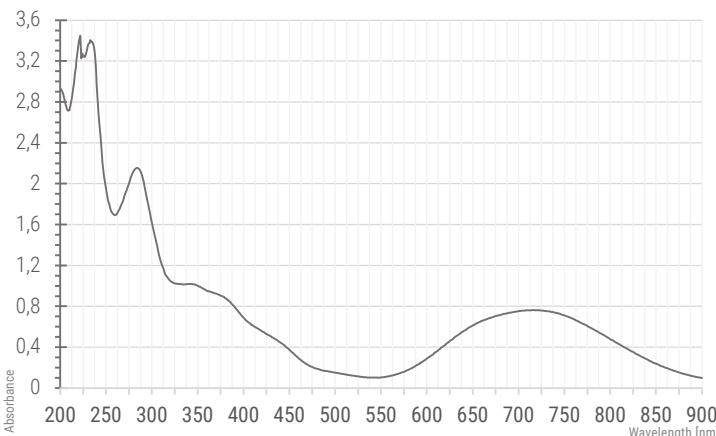
615 nm [MeOH] Absorption max.	 Colour of Product		1,1'-Bis(4-sulfophenyl)-5,5'-dihydroxy-3,3'-dimethylpyrazolo-4,4'-pentamethine oxonole	
			CAS-No.	27969-56-8
			Code	12350
			Molecular Formula	C₂₅H₂₂N₄O₈S₂
			Molecular Weight	570.60 g/mol
			Extinction Coefficient	66874 L/mol·cm
			Solubility in Water	0.1 % 0.9 g/L
			Solubility in MeOH	0.5 % 3.8 g/L
			Appearance	Brownish-black crystalline powder
			Application	Filter and Antihalation Dye in Photography

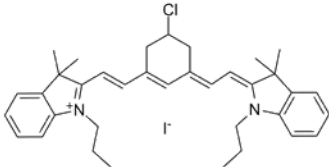
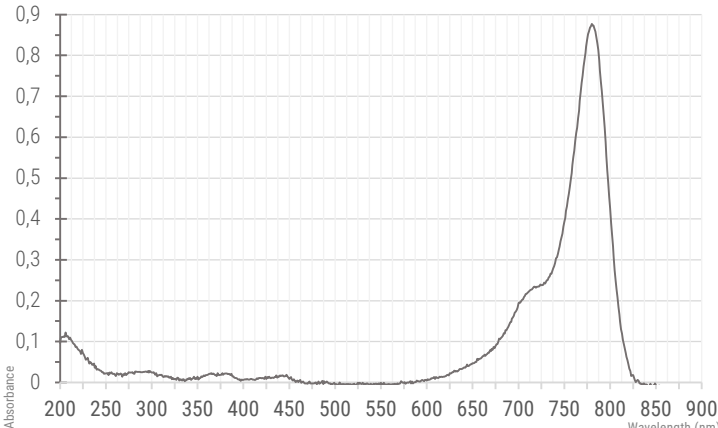
616 nm [MeOH] Absorption max.	 Colour of Product		8-Amino-7-(4-nitrophenyl)azo-2-phenylazo-1-naphthol-3,6-disulfonic acid disodium salt Acid Black 1 C.I. 20470	
			CAS-No.	1064-48-8
			Code	49810
			Molecular Formula	C₂₂H₁₆N₆O₉S₂Na₂
			Molecular Weight	616.49 g/mol
			Extinction Coefficient	45864 L/mol·cm
			Solubility in Water	10.5 % 105 g/L
			Solubility in MeOH	1.5 % 11.3 g/L
			Appearance	Dark-brown to black crystalline powder
			Application	Printing Dye

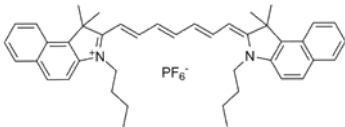
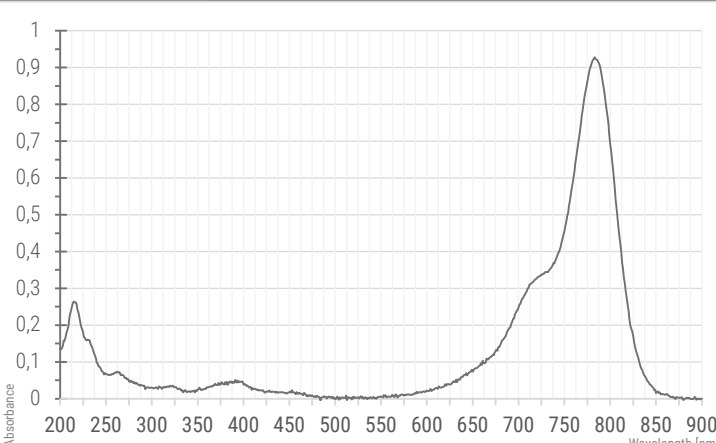
626 nm [MeOH] Absorption max.	 Colour of Product		2,2'-Dimercapto-4,4',6,6'-tetrahydroxypyrimidino-5,5'-pentamethine oxonole	
			CAS-No.	63811-40-5
			Code	13460
			Molecular Formula	C₁₃H₁₀N₄O₄S₂
			Molecular Weight	350.38 g/mol
			Extinction Coefficient	84862 L/mol·cm
			Solubility in Water	0.56 % 5.5 g/L
			Solubility in MeOH	0.6 % 4.6 g/L
			Appearance	Dark-blue crystalline powder
			Application	Filter Dye in Photography

643 nm [MeOH] Absorption max.	 Colour of Product		1,1'-Dibutyl- 3,3,3',3'-tetramethylindadicarbocyanine perchlorate	
			CAS-No.	131443-20-4
			Code	06830
			Molecular Formula	C₃₃H₄₃N₂ClO₄
			Molecular Weight	567.16 g/mol
			Extinction Coefficient	258625 L/mol·cm
			Solubility in Water	0.06 % 0.6 g/L
			Solubility in MeOH	11.4 % 90.3 g/L
			Appearance	Green-lustrous crystalline powder
Application	Dye for Optical Disc			
646 nm [MeOH] Absorption max.	 Colour of Product		3,7-Bis(diethylamino)phenoxazininium perchlorate <i>Oxazine 1</i>	
			CAS-No.	24796-94-9
			Code	17710
			Molecular Formula	C₂₀H₂₆N₃O₅Cl
			Molecular Weight	423.90 g/mol
			Extinction Coefficient	62990 L/mol·cm
			Solubility in Water	0.5 % 5 g/L
			Solubility in MeOH	1.3 % 9 g/L
			Appearance	Green crystalline powder
Application	Laser/Scintillation Dye			
650 nm [MeOH] Absorption max.	 Colour of Product		4,5-Benzo-1'-ethyl- 3-methylquinacarbocyanine iodide	
			CAS-No.	143269-53-8
			Code	12700
			Molecular Formula	C₂₆H₂₃N₂SI
			Molecular Weight	522.46 g/mol
			Extinction Coefficient	133322 L/mol·cm
			Solubility in Water	0.6 % 5 g/L
			Solubility in MeOH	0.4 % 4 g/L
			Appearance	Green crystalline powder
Application	Red Sensitizer in Photography			

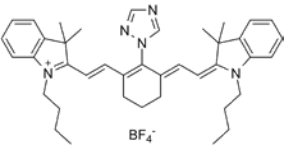
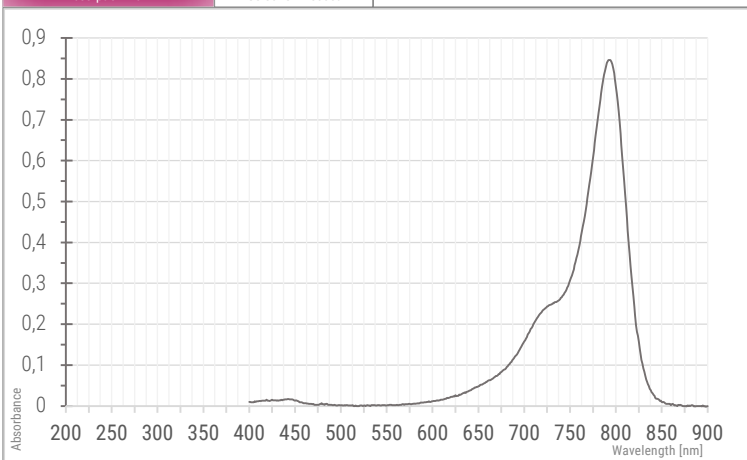
668 nm [MeOH] Absorption max.	Colour of Product	 N(C₂H₅)₂	4-[[4-(Diethylamino)phenyl]imino]-1,4-dihydro-1-oxonaphthalene-2-carboxylic acid-N-methylamide																			
			<table><tr><td>CAS-No.</td><td>4899-82-5</td></tr><tr><td>Code</td><td>77930</td></tr><tr><td>Molecular Formula</td><td>C₂₂H₂₃N₃O₂</td></tr><tr><td>Molecular Weight</td><td>361.44 g/mol</td></tr><tr><td>Extinction Coefficient</td><td>28698 L/mol·cm</td></tr><tr><td>Solubility in Water</td><td>0.1 % 0.7 g/L</td></tr><tr><td>Solubility in MeOH</td><td>0.7 % 5 g/L</td></tr><tr><td>Appearance</td><td>Black crystalline powder</td></tr><tr><td>Application</td><td>Functional Dye</td></tr></table>		CAS-No.	4899-82-5	Code	77930	Molecular Formula	C ₂₂ H ₂₃ N ₃ O ₂	Molecular Weight	361.44 g/mol	Extinction Coefficient	28698 L/mol·cm	Solubility in Water	0.1 % 0.7 g/L	Solubility in MeOH	0.7 % 5 g/L	Appearance	Black crystalline powder	Application	Functional Dye
CAS-No.	4899-82-5																					
Code	77930																					
Molecular Formula	C ₂₂ H ₂₃ N ₃ O ₂																					
Molecular Weight	361.44 g/mol																					
Extinction Coefficient	28698 L/mol·cm																					
Solubility in Water	0.1 % 0.7 g/L																					
Solubility in MeOH	0.7 % 5 g/L																					
Appearance	Black crystalline powder																					
Application	Functional Dye																					
680 nm [MeOH] Absorption max.	Colour of Product	 PF₆⁻	4,5:4',5'-Dibenzo-1,1'-dibutyl-3,3,3',3'-tetramethyl-indadicarbocyanine hexafluorophosphate																			
			<table><tr><td>CAS-No.</td><td>137147-59-2</td></tr><tr><td>Code</td><td>06660</td></tr><tr><td>Molecular Formula</td><td>C₄₁H₄₇N₂PF₆</td></tr><tr><td>Molecular Weight</td><td>712.80 g/mol</td></tr><tr><td>Extinction Coefficient</td><td>231945 L/mol·cm</td></tr><tr><td>Solubility in Water</td><td>Insoluble</td></tr><tr><td>Solubility in MeOH</td><td>0.5 % 3.5 g/L</td></tr><tr><td>Appearance</td><td>Green crystalline powder</td></tr><tr><td>Application</td><td>Dye for Optical Disc</td></tr></table>		CAS-No.	137147-59-2	Code	06660	Molecular Formula	C ₄₁ H ₄₇ N ₂ PF ₆	Molecular Weight	712.80 g/mol	Extinction Coefficient	231945 L/mol·cm	Solubility in Water	Insoluble	Solubility in MeOH	0.5 % 3.5 g/L	Appearance	Green crystalline powder	Application	Dye for Optical Disc
CAS-No.	137147-59-2																					
Code	06660																					
Molecular Formula	C ₄₁ H ₄₇ N ₂ PF ₆																					
Molecular Weight	712.80 g/mol																					
Extinction Coefficient	231945 L/mol·cm																					
Solubility in Water	Insoluble																					
Solubility in MeOH	0.5 % 3.5 g/L																					
Appearance	Green crystalline powder																					
Application	Dye for Optical Disc																					
681 nm [MeOH] Absorption max.	Colour of Product	 ClO₄⁻	4,5:4',5'-Dibenzo-1,1'-dibutyl-3,3,3',3'-tetramethyl-indadicarbocyanine perchlorate																			
			<table><tr><td>CAS-No.</td><td>121482-73-3</td></tr><tr><td>Code</td><td>03930</td></tr><tr><td>Molecular Formula</td><td>C₄₁H₄₇N₂ClO₄</td></tr><tr><td>Molecular Weight</td><td>667.28 g/mol</td></tr><tr><td>Extinction Coefficient</td><td>221003 L/mol·cm</td></tr><tr><td>Solubility in Water</td><td>0.07 % 0.7 g/L</td></tr><tr><td>Solubility in MeOH</td><td>0.4 % 3 g/L</td></tr><tr><td>Appearance</td><td>Green crystalline powder</td></tr><tr><td>Application</td><td>Dye for Optical Disc</td></tr></table>		CAS-No.	121482-73-3	Code	03930	Molecular Formula	C ₄₁ H ₄₇ N ₂ ClO ₄	Molecular Weight	667.28 g/mol	Extinction Coefficient	221003 L/mol·cm	Solubility in Water	0.07 % 0.7 g/L	Solubility in MeOH	0.4 % 3 g/L	Appearance	Green crystalline powder	Application	Dye for Optical Disc
CAS-No.	121482-73-3																					
Code	03930																					
Molecular Formula	C ₄₁ H ₄₇ N ₂ ClO ₄																					
Molecular Weight	667.28 g/mol																					
Extinction Coefficient	221003 L/mol·cm																					
Solubility in Water	0.07 % 0.7 g/L																					
Solubility in MeOH	0.4 % 3 g/L																					
Appearance	Green crystalline powder																					
Application	Dye for Optical Disc																					

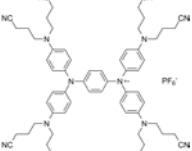
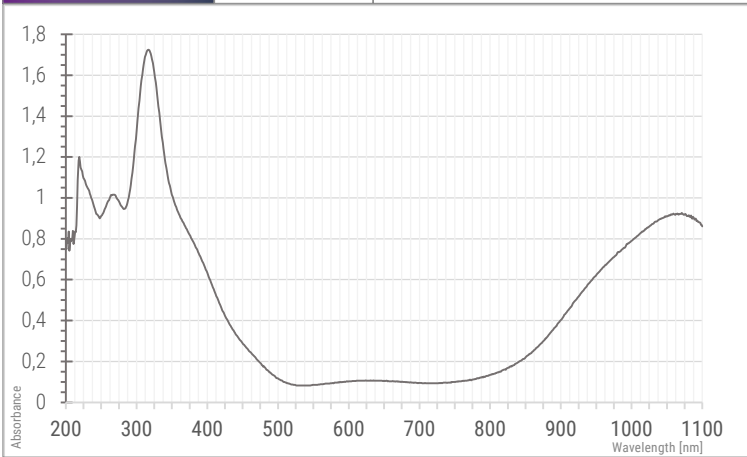
715 nm [MeOH] Absorption max.	 Colour of Product		1-Nitroso-2-naphthol-6-sulfonic acid sodium salt, iron(III) complex Naphtholgreen B	
			CAS-No.	19381-50-1
			Code	12500
			Molecular Formula	C ₃₀ H ₁₅ N ₃ O ₁₅ S ₃ Na ₃ Fe
			Molecular Weight	878.47 g/mol
			Extinction Coefficient	10717 L/mol·cm
			Solubility in Water	3.4 % 34.5 g/L
			Solubility in MeOH	2.3 % 17.6 g/L
			Appearance	Dark-green crystalline powder
Application		Filter Dye in Photography		

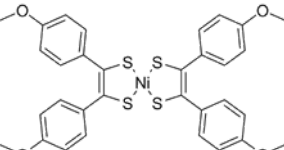
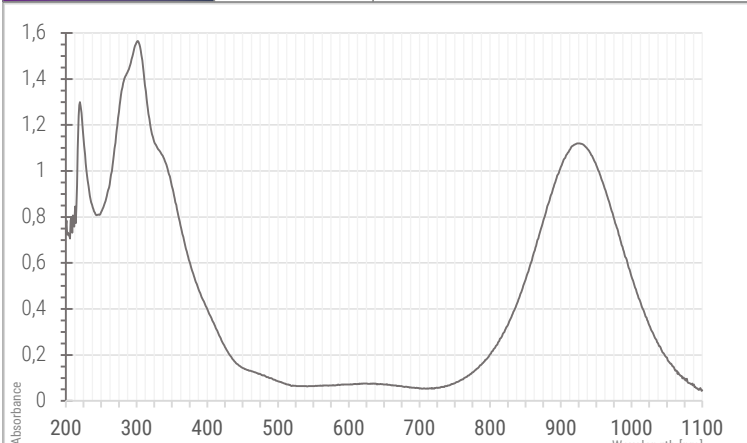
780 nm [MeOH] Absorption max.	 Colour of Product	 11-Chloro-1,1'-dipropyl-3,3,3',3'-tetramethyl-10,12-trimethyleneindatricarbocyanine iodide
		
CAS-No.	207399-07-3	
Code	11040	
Molecular Formula	C ₃₆ H ₄₄ ClN ₂ I	
Molecular Weight	667.11 g/mol	
Extinction Coefficient	297865 L/mol·cm	
Solubility in Water	0.005 % 0.05 g/L	
Solubility in MeOH	2 % 15.1 g/L	
Appearance	Brown to olive crystalline powder	
Application	Laser and IR Dye	

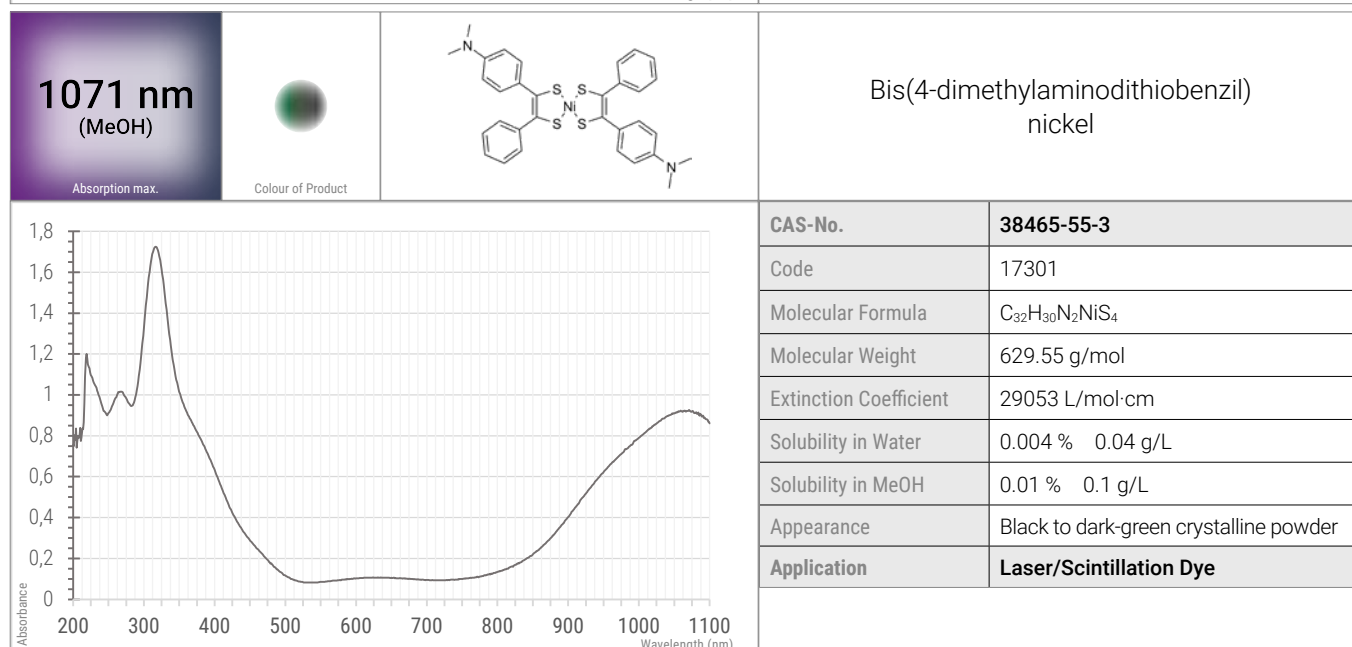
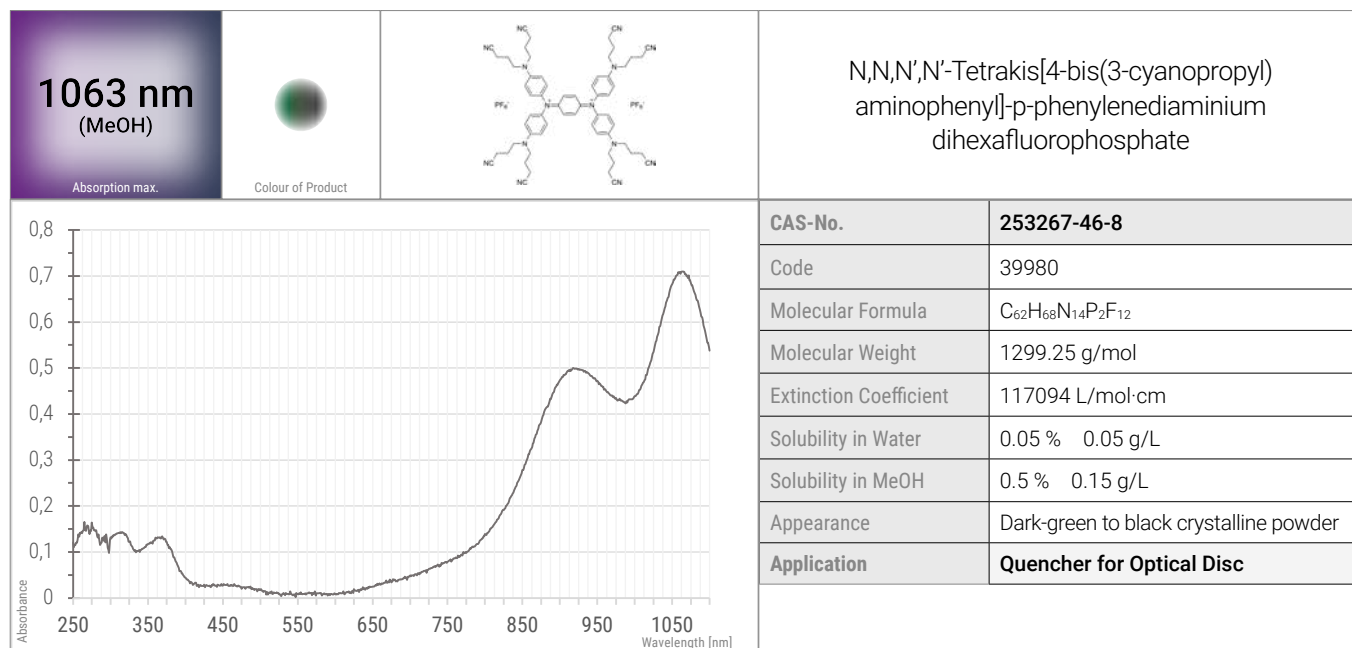
784 nm [MeOH] Absorption max.	 Colour of Product	 PF₆⁻	4,5:4',5'-Dibenzo-1,1'-dibutyl-3,3,3',3'-tetramethyl-indatricarbocyanine hexafluorophosphate	
			CAS-No.	663161-10-2
			Code	11020
			Molecular Formula	C₄₃H₄₉N₂PF₆
			Molecular Weight	738.83 g/mol
			Extinction Coefficient	275436 L/mol·cm
			Solubility in Water	Insoluble
			Solubility in MeOH	0.3 % 2 g/L
			Appearance	Dark-green crystalline powder
			Application	Laser/Scintillation Dye



792 nm [MeOH] Absorption max.	Colour of Product	 BF₄⁻	1-Butyl-2-[2-[3-[2-(1-butyl-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene) ethylidene]-2-(1H-1,2,4-triazol-1-yl)-1-cyclohexen-1-yl]ethenyl]-3,3-dimethyl-3H-indolium tetrafluoroborate	
			CAS-No. 494762-23-1	
			Code 70820	
			Molecular Formula C₄₀H₅₀N₅BF₄	
			Molecular Weight 687.67 g/mol	
			Extinction Coefficient 290541 L/mol·cm	
			Solubility in Water 0.001 % 0.01 g/L	
			Solubility in MeOH 11.7 % 90 g/L	
			Appearance Bright-green crystals	
			Application Laser/Scintillation Dye	

824 nm (MeOH) Absorption max.	Colour of Product	 PF₆⁻	N,N,N',N'-Tetrakis[4-bis(3-cyanopropyl)aminophenyl]- p-phenylenediaminium hexafluorophosphate	
			CAS-No. 253267-38-8	
			Code 39990	
			Molecular Formula C₆₂H₆₈N₁₄PF₆	
			Molecular Weight 1154.28 g/mol	
			Extinction Coefficient 17747 L/mol·cm	
			Solubility in Water 0.02 % 0.2 g/L	
			Solubility in MeOH 0.002 % 0.02 g/L	
			Appearance Dark-green crystalline powder	
			Application Quencher for Optical Disc	

927 nm (MeOH) Absorption max.	Colour of Product		Bis(4,4'-dimethoxydithiobenzil)nickel	
			CAS-No. 38951-97-2	
			Code 11810	
			Molecular Formula C₃₂H₂₈O₄S₄Ni	
			Molecular Weight 663.50 g/mol	
			Extinction Coefficient 37620 L/mol·cm	
			Solubility in Water 0.1 % 1 g/L	
			Solubility in MeOH 0.08 % 0.6 g/L	
			Appearance Black to dark-brown crystalline powder	
			Application Laser/Scintillation Dye	



CAS

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183436-34-2	12	365514-36-9	22
189189-12-6	22	3695-85-0	06
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		38951-97-2	28
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		494762-23-1	28
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Wavelength Index

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63811-40-5	22	_____ 04
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		> 600 nm
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		> 900 nm
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7385-67-3	19	
7696-70-0	09	
77837-26-4	17	
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871466-65-8	16	
89846-21-9	13	
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90-33-5	04	
905-96-4	12	
91101-24-5	07	
92050-35-6	18	
977-96-8	16	

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> 500 nm	13
> 600 nm	23
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> 800 nm	28
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06660	26
06830	25
06870	25
07770	24
08610	08

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11040	27
11060	18
11070	17
11092	16
11710	22
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12290	13
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12450	24
12500	27
12670	10
12680	14
12690	17
12700	25
12740	16
12810	11
12830	12
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12860	19
12880	21
12930	11
12950	08
13460	23
15050	09
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17021	09
17041	04
17080	07
17120	10
17301	29
17440	19
17530	13
17590	17
17710	25
19640	14

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33050	13
33340	07
33350	24
33720	06
33820	06
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34860	07
36780	05
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39990	28

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49810	23
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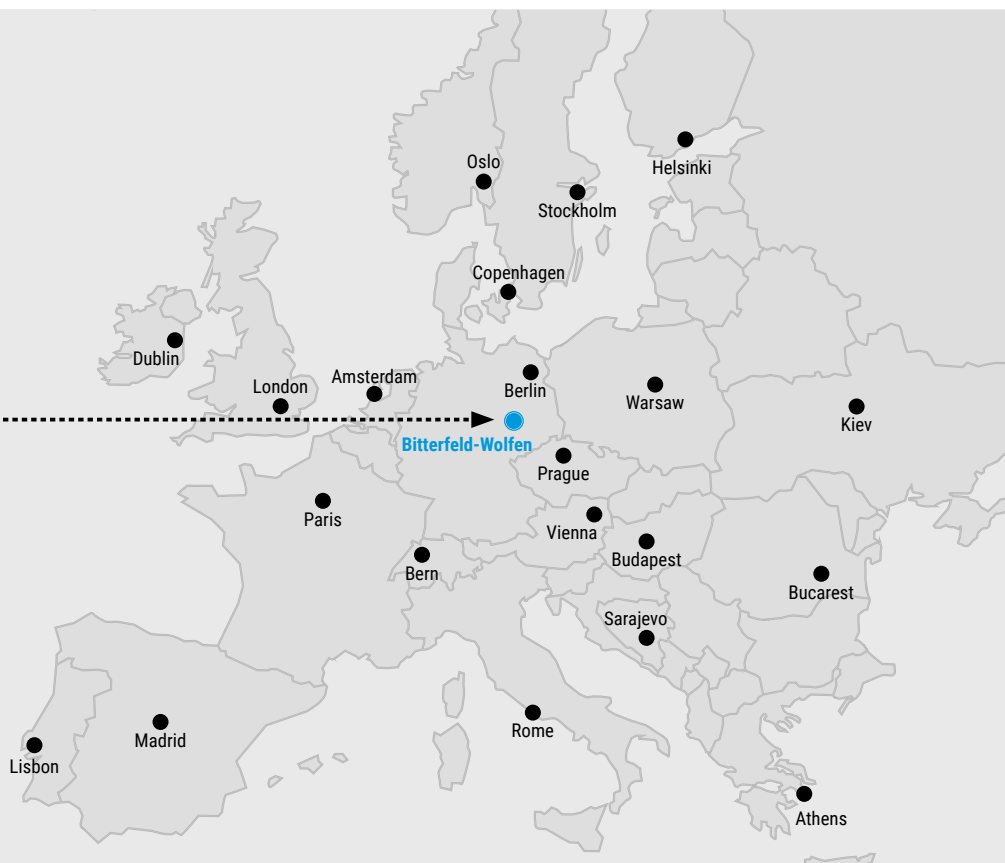
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58890	20
59600	21
59780	19

6

69460	16
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7

70820	28
71030	04
74270	08
77280	15
77690	10
77930	26
79400	04
79680	12



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