

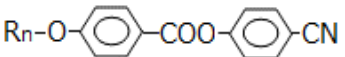
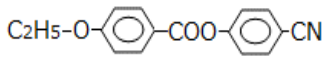
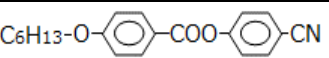
# 液晶材料一覧

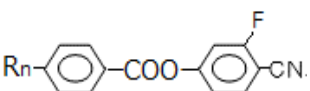
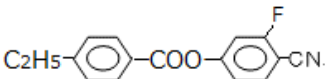
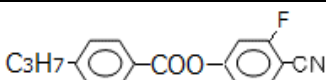
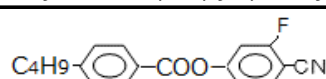
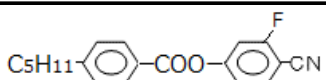
## エステル系

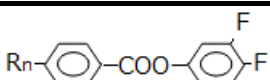
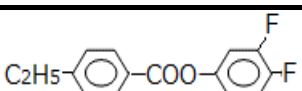
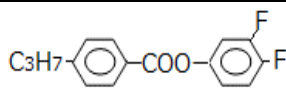
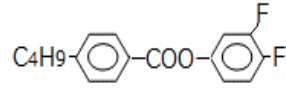
改訂(追加) 2021年3月27日 LCC

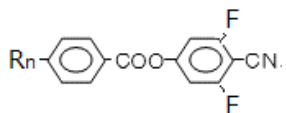
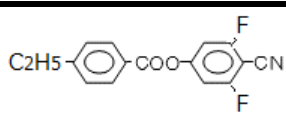
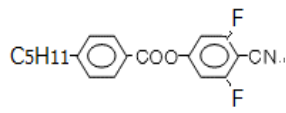
$R_n-O-\text{C}_6\text{H}_4-\text{COO}-\text{C}_6\text{H}_4-R_m$ <b>アルコキシフェニルエステル</b> Alkoxy Phenyl Estel						
品名	CAS No.	Rn-O	Rm	化学式	mp(°C)	NI(°C)
PE102		CH <sub>3</sub> -O	C <sub>2</sub> H <sub>5</sub>	$\text{CH}_3\text{-O}-\text{C}_6\text{H}_4-\text{COO}-\text{C}_6\text{H}_4-\text{C}_2\text{H}_5$	66.8	
				4-ethyl-4'-methoxy phenyl estel		
PE105		CH <sub>3</sub> -O	C <sub>5</sub> H <sub>11</sub>	$\text{CH}_3\text{-O}-\text{C}_6\text{H}_4-\text{COO}-\text{C}_6\text{H}_4-\text{C}_5\text{H}_{11}$	29.0	42.0
				4-pentyl-4'-methoxy phenyl estel		
PE602		C <sub>6</sub> H <sub>13</sub> -O	C <sub>2</sub> H <sub>5</sub>	$\text{C}_6\text{H}_{13}\text{-O}-\text{C}_6\text{H}_4-\text{COO}-\text{C}_6\text{H}_4-\text{C}_2\text{H}_5$	62.0	45.0
				4-ethyl-4'-hexyloxy phenyl estel		
PE605		C <sub>6</sub> H <sub>13</sub> -O	C <sub>5</sub> H <sub>11</sub>	$\text{C}_6\text{H}_{13}\text{-O}-\text{C}_6\text{H}_4-\text{COO}-\text{C}_6\text{H}_4-\text{C}_5\text{H}_{11}$	50.0	63.0
				4-pentyl-4'-hexyloxy phenyl estel		

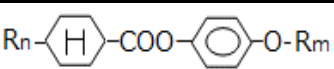
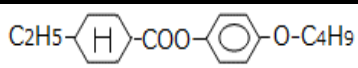
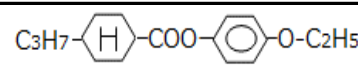
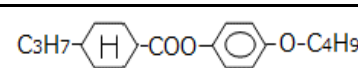
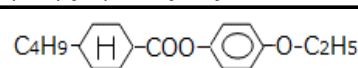
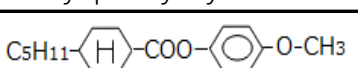
$R_n-\text{C}_6\text{H}_4-\text{COO}-\text{C}_6\text{H}_4-\text{CN}$ <b>シアノフェニルエステル</b> Cyano Phenyl Estel						
品名	CAS No.	Rn	CN	構造式	mp(°C)	NI(°C)
PE2CN		C <sub>2</sub> H <sub>5</sub>	CN	$\text{C}_2\text{H}_5-\text{C}_6\text{H}_4-\text{COO}-\text{C}_6\text{H}_4-\text{CN}$	75.0	(59.8)
				4-cyano-4'-ethyl phenyl estel		
PE3CN		C <sub>3</sub> H <sub>7</sub>	CN	$\text{C}_3\text{H}_7-\text{C}_6\text{H}_4-\text{COO}-\text{C}_6\text{H}_4-\text{CN}$	101.0	(51.4)
				4-cyano-4'-propyl phenyl estel		
PE4CN		C <sub>4</sub> H <sub>9</sub>	CN	$\text{C}_4\text{H}_9-\text{C}_6\text{H}_4-\text{COO}-\text{C}_6\text{H}_4-\text{CN}$	66.0	(41.1)
				4-cyano-4'-butyl phenyl estel		
PE5CN		C <sub>5</sub> H <sub>11</sub>	CN	$\text{C}_5\text{H}_{11}-\text{C}_6\text{H}_4-\text{COO}-\text{C}_6\text{H}_4-\text{CN}$	64.0	(55.4)
				4-cyano-4'-pentyl phenyl estel		
PE6CN		C <sub>6</sub> H <sub>13</sub>	CN	$\text{C}_6\text{H}_{13}-\text{C}_6\text{H}_4-\text{COO}-\text{C}_6\text{H}_4-\text{CN}$	44.0	48
				4-cyano-4'-hexyl phenyl estel		
PE9CN		C <sub>9</sub> H <sub>19</sub>	CN	$\text{C}_9\text{H}_{19}-\text{C}_6\text{H}_4-\text{COO}-\text{C}_6\text{H}_4-\text{CN}$	43.5	60
				4-cyano-4'-nonyl phenyl estel		

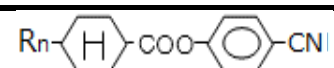
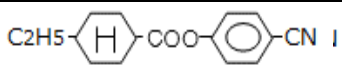
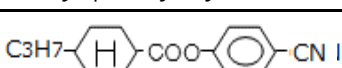
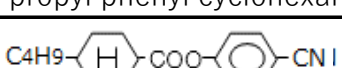
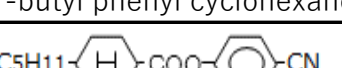
 <b>アルコキシシアノフェニルエステル Alkoxy Cyano Phenyl Estel</b>						
品名	CAS No.	Rn-O	CN	構造式	mp(°C)	NI(°C)
PE 2 OCN		C <sub>2</sub> H <sub>5</sub> -O	CN	 4-cyano-4'-ethoxy phenyl estel	120.0	(105.0)
PE 6 OCN		C <sub>6</sub> H <sub>13</sub> -O	CN	 4-cyano-4'-hexyloxy phenyl estel	69.0	81.0

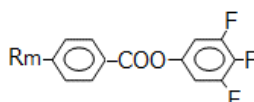
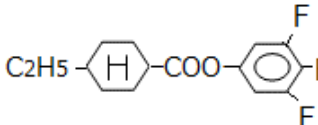
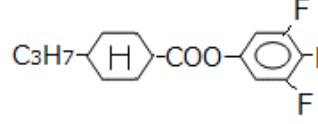
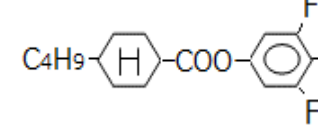
 <b>シアノフルオロフェニルエステル Cyano Fluoro Phenyl Estel</b>						
品名	CAS No.	Rn	F CN	構造式	mp(°C)	NI(°C)
PE2CN-F	86776-50-3	C <sub>2</sub> H <sub>5</sub>	F CN	 3-fluoro-4-cyano-4'-ethyl phenyl estel	77.5	
PE3CN-F	86776-51-4	C <sub>3</sub> H <sub>7</sub>	F CN	 3-fluoro-4-cyano-4'-propyl phenyl estel	70.0	
PE4CN-F	86776-52-5	C <sub>4</sub> H <sub>9</sub>	F CN	 3-fluoro-4-cyano-4'-butyl phenyl estel	16.0	
PE5CN-F	86786-89-2	C <sub>5</sub> H <sub>11</sub>	F CN	 3-fluoro-4-cyano-4'-pentyl phenyl estel	29.5	

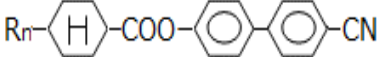
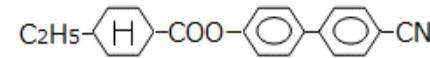
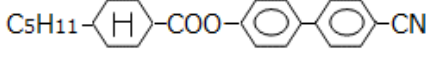
 <b>ジフルオロフェニルエステル Difluoro Phenyl Estel</b>						
品名	CAS No.	Rn	FF	構造式	mp(°C)	NI(°C)
PE2FF 常温 固体		C <sub>2</sub> H <sub>5</sub>	FF	 3,4-fluoro -4'-ethyl phenyl estel		
PE3FF 常温 液体		C <sub>3</sub> H <sub>7</sub>	FF	 3,4-fluoro -4'-propyl phenyl estel		
PE4FF 常温 液体		C <sub>4</sub> H <sub>9</sub>	FF	 3,4-fluoro -4'-butyl phenyl estel		

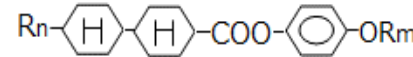
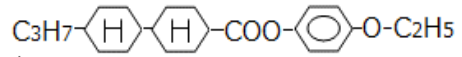
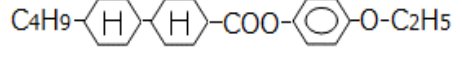
		4-cyano-3,5-bifluoro-4'-alkyl <b>Phenyl Ester</b>				
品名	CAS No.	Rn	F CN F	構造式	mp(°C)	NI(°C)
PE2R		C2H5	F CN F			
		4-cyano-3,5-bifluoro-4'-ethyl phenyl ester				
PE5R	123843-69-6	C5H11	F CN F			
		4-cyano-3,5-bifluoro-4'-pentyl phenyl ester				

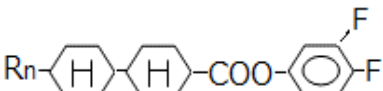
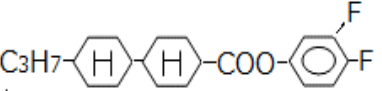
		シクロヘキサンエステル alkoxy phenyl <b>Cyclohexane Ester</b>				
品名	CAS No.	Rn	O-Rm	構造式	mp(°C)	NI(°C)
CE204		C2H5	O-C4H9			
		4-butoxy-4'-ethyl phenyl cyclohexane ester				
CE302		C3H7	O-C2H5		47.0	78.5
		4-ethoxy-4'-propyl phenyl cyclohexane ester				
CE304		C3H7	O-C4H9		43.0	72.5
		4-butoxy-4'-propyl phenyl cyclohexane ester				
CE402		C4H9	O-C2H5		36.0	75.5
		4-ethoxy-4'-butyl phenyl cyclohexane ester				
CE501		C5H11	O-CH3		36.0	63.5
		4-methoxy-4'-pentyl phenyl cyclohexane ester				

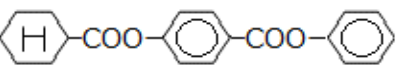
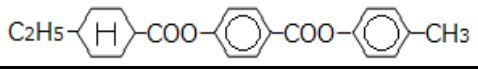
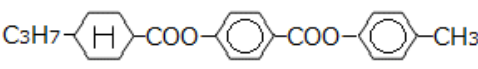
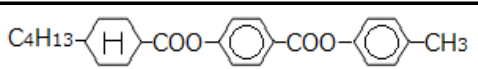
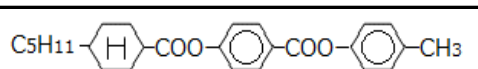
		シアノフェニルシクロヘキサンエステル Cyano Phenyl <b>Cyclohexane Ester</b>				
品名	CAS No.	Rn	C N	構造式	mp(°C)	NI(°C)
CE2CN (2CCN)		C2H5	C N		46.0	(33.0)
		4-cyano-4'-ethyl phenyl cyclohexane ester				
CE3CN (3CCN)	62439-33-2	C3H7	C N		54.5	69.5
		4-cyano-4'-propyl phenyl cyclohexane ester				
CE4CN (4CCN)	62439-34-3	C4H9	C N		55.8	67.9
		4-cyano-4'-butyl phenyl cyclohexane ester				
CE5CN (5CCN)	62439-35-4	C5H11	C N		47.2	79.2
		4-cyano-4'-pentyl phenyl cyclohexane ester				

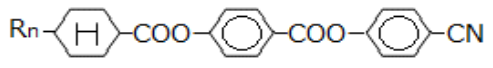
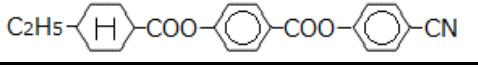
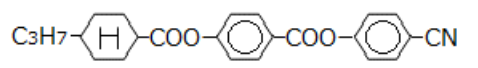
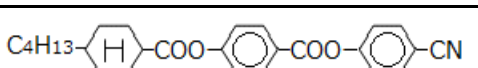
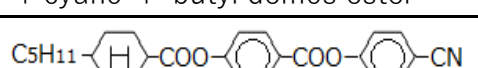
 <span style="float: right;">tafluoro phenyl <b>Cyclohexane Estel</b></span>						
品名	CAS No.	Rn	C N	構造式	mp(°C)	NI(°C)
CE2FFF						
常温 液体	3,4,5-tafluoro-4'-ethyl phenyl cyclohexane estel					
CE3FFF						
常温 液体	3,4,5-tafluoro-4'-propyl phenyl cyclohexane estel					
CE4FFF						
常温 液体	3,4,5-tafluoro-4'-butyl phenyl cyclohexane estel					

 <span style="float: right;">4-Cyano-4'-Alkyl <b>Cyclohexane Estel Biphenyl</b></span>						
品名	CAS No.	Rn	C N	構造式	mp(°C)	NI(°C)
CEB2CN	67284-56-4	C <sub>2</sub> H <sub>5</sub>	C N			
	4-Cyano-4'-ethyl <b>Cyclohexane Estel Biphenyl</b>					
CEB5CN	67284-59-7	C <sub>5</sub> H <sub>11</sub>	C N			
	4-Cyano-4'-pentyl <b>Cyclohexane Estel Biphenyl</b>					

 <span style="float: right;">alkoxy phenyl bi<b>Cyclohexane Estel</b></span>						
品名	CAS No.	Rn	O-Rm	構造式	mp(°C)	NI(°C)
CCE3O2		C <sub>3</sub> H <sub>7</sub>	O-C <sub>2</sub> H <sub>5</sub>			
	4-ethoxy- 4'-propyl phenyl bicyclohexane estel					
CCE4O2		C <sub>4</sub> H <sub>9</sub>	O-C <sub>2</sub> H <sub>5</sub>			
	4-ethoxy- 4'-butyl phenyl bicyclohexane estel					

 <span style="float: right;">3,4-fluoro-4'-alkyl phenyl bicyclohexane estel</span>						
品名	CAS No.	Rn		構造式	mp(°C)	NI(°C)
CCE3FF		C3H7	FF			
		3,4-fluoro-4'-propyl phenyl bicyclohexane estel				

 <span style="float: right;">デモスエステル Demos Estel</span>						
品名	CAS No.	Rn	Rm	構造式	mp(°C)	NI(°C)
D 2 1		C2H5	CH3		62.0	188.0
		4-methyl-4'-ethyl demos estel				
D 3 1		C3H7	CH3		73.0	223.0
		4-methyl-4'-propyl demos estel				
D 4 1		C4H9	CH3		78.0	205.0
		4-methyl-4'-butyl demos estel				
D 5 1		C5H11	CH3		57.0	210.0
		4-methyl-4'-pentyl demos estel				

 <span style="float: right;">シアノデモスエステル Cyano Demos Estel</span>						
品名	CAS No.	Rn	CN	構造式	mp(°C)	NI(°C)
D2CN		C2H5	CN		87.0	220.0
		4-cyano-4'-ethyl demos estel				
D3CN		C3H7	CN		89.0	240.0
		4-cyano-4'-propyl demos estel				
D4CN		C4H9	CN		99.0	255.0
		4-cyano-4'-butyl demos estel				
D5CN		C5H11	CN		83.0	235.0
		4-cyano-4'-pentyl demos estel				