

# 液晶材料一覧

トラン系

改訂(追加) 2021年3月26日 LCC

$R_n$ --C≡C-- $R_m$						
フェニルトラン Phenyl Tolanns						
品名	CAS No.	$R_n$	$R_m$	構造式	mp(°C)	NI(°C)
PT10		CH <sub>3</sub>	—			
				4'-methyl phenyl tolanns		
PT20		C <sub>2</sub> H <sub>5</sub>	—			
				4'-ethyl phenyl tolanns		
PT21		C <sub>2</sub> H <sub>5</sub>	CH <sub>3</sub>			
				4-methyl-4'-ethyl phenyl tolanns		
PT31		C <sub>3</sub> H <sub>7</sub>	CH <sub>3</sub>			
				4-methyl-4'-propyl phenyl tolanns		

$R_n$ --C≡C--O- $R_m$						
アルコキシフェニルトラン Alkoxy Phenyl Tolanns						
品名	CAS No.	$R_n$	O- $R_m$	構造式	mp(°C)	NI(°C)
PT100		—	O-CH <sub>3</sub>			
				4-methoxy phenyl tolanns		
PT200		—	O-C <sub>2</sub> H <sub>5</sub>			
				4-ethoxy phenyl tolanns		
PT201		C <sub>2</sub> H <sub>5</sub>	O-CH <sub>3</sub>			
				4-methoxy-4'-ethyl phenyl tolanns		
PT301		C <sub>3</sub> H <sub>7</sub>	O-CH <sub>3</sub>			
				4-methoxy-4'-propyl phenyl tolanns		
PT302		C <sub>3</sub> H <sub>7</sub>	O-C <sub>2</sub> H <sub>5</sub>		89.0	96.0
				4-ethoxy-4'-propyl phenyl tolanns		
PT304		C <sub>3</sub> H <sub>7</sub>	O-C <sub>4</sub> H <sub>9</sub>			
				4-butoxy-4'-propyl phenyl tolanns		
PT402	85583-83-1	C <sub>4</sub> H <sub>9</sub>	O-C <sub>2</sub> H <sub>5</sub>		25.5	81.0
				4-ethoxy-4'-butyl phenyl tolanns		

P T 5 0 1	39969-28-3	C <sub>5</sub> H <sub>11</sub>	O-CH <sub>3</sub>		47.0	58.0
		4-methoxy-4'-pentyl phenyl tolans				
P T 5 0 2	95480-29-8	C <sub>5</sub> H <sub>11</sub>	O-C <sub>2</sub> H <sub>5</sub>		58.0	88.0
		4-ethoxy-4'-pentyl phenyl tolans				

		<b>Fトラン</b> Fluoro Phenyl Tolans				
品名	CAS No.	R <sub>n</sub>	F	構造式	mp(°C)	NI(°C)
PT 2 F		C <sub>2</sub> H <sub>5</sub>	F		55.0	
		4-fluoro-4'-ethyl phenyl tolans				
PT 3 F		C <sub>3</sub> H <sub>7</sub>	F		54.0	
		4-fluoro-4'-propyl phenyl tolans				

		<b>2Fトラン</b> Bifluoro Phenyl Tolans				
品名	CAS No.	R <sub>n</sub>	F	構造式	mp(°C)	NI(°C)
PT0FF		0	F F			
		3,4-bifluoro phenyl tolans				
PT 1 FF		CH <sub>3</sub>	F F			
		3,4-bifluoro-4'-methyl phenyl tolans				
PT 2 FF	145698-42-6	C <sub>2</sub> H <sub>5</sub>	F F		31.0	
		3,4-bifluoro-4'-ethyl phenyl tolans				
PT 3 FF	145698-43-7	C <sub>3</sub> H <sub>7</sub>	F F		34.0	
		3,4-bifluoro-4'-propyl phenyl tolans				

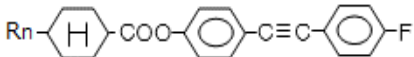
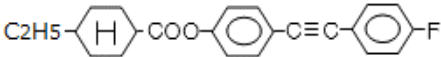
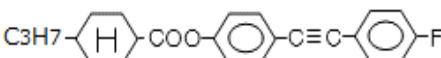
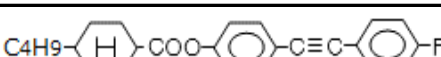
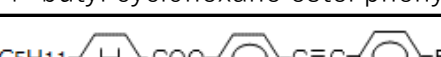
		<b>FFFトラン</b> Tafluoro Phenyl Tolans				
品名	CAS No.	R <sub>n</sub>	F	構造式	mp(°C)	NI(°C)
PT2FFF		C <sub>2</sub> H <sub>5</sub>	FFF			
		3,4,5-tafluoro-4'-ethyl phenyl tolans				

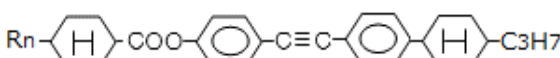
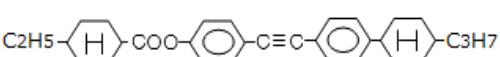
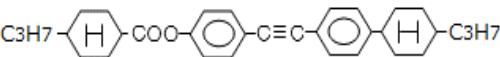
PT3FFF		C <sub>3</sub> H <sub>7</sub>	FFF		24.0	
		3,4,5-tafluoro- 4'-propyl phenyl tolan				

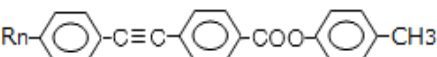
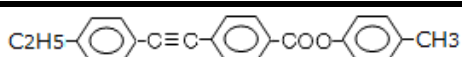
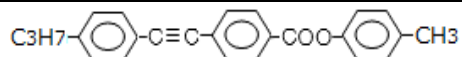
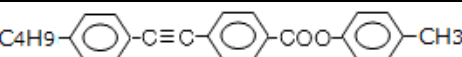
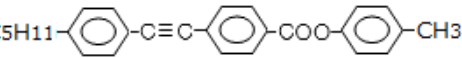
<b>Cyclohexane Phenyl Tolans</b>						
品名	CAS No.	R <sub>n</sub>	R <sub>m</sub>	構造式	mp(°C)	NI(°C)
CPT 3 2		C <sub>3</sub> H <sub>7</sub>	C <sub>2</sub> H <sub>5</sub>			
		4-ethyl-4'-propyl cyclohexane phenyl tolan				
CPT 3 3		C <sub>3</sub> H <sub>7</sub>	C <sub>3</sub> H <sub>7</sub>			213.0
		4-propyl-4'-propyl cyclohexane phenyl tolan				




<b>エステルラン cyclohexane Estel phenyl Tolans</b>						
品名	CAS No.	R <sub>n</sub>	R <sub>m</sub>	構造式	mp(°C)	NI(°C)
E T 2 0		C <sub>2</sub> H <sub>5</sub>	—		112.0	(80.0)
		4'-ethyl cyclohexane estel phenyl tolan				
E T 3 0		C <sub>3</sub> H <sub>7</sub>	—		110.0	148.0
		4'-propyl cyclohexane estel phenyl tolan				
E T 4 0		C <sub>4</sub> H <sub>9</sub>	—		109.0	145.0
		4'-butyl cyclohexane estel phenyl tolan				
E T 5 0		C <sub>5</sub> H <sub>11</sub>	—		103.0	152.0
		4'-pentyl cyclohexane estel phenyl tolan				

<b>レコキシ エステルラン alkoxy cyclohexane Estel phenyl Tolans</b>						
品名	CAS No.	R <sub>n</sub>	O-R <sub>m</sub>	構造式	mp(°C)	NI(°C)
E T 2 0 1		C <sub>2</sub> H <sub>5</sub>	O-CH <sub>3</sub>		93.0	240.0
		4-methoxy-4'-ethyl cyclohexane estel phenyl tolan				
E T 3 0 1		C <sub>3</sub> H <sub>7</sub>	O-CH <sub>3</sub>		96.0	257.0
		4-methoxy-4'-propyl cyclohexane estel phenyl tolan				

 <b>F エステルトラン</b> F cyclohexane Estel phenyl Tolans						
品名	CAS No.	R <sub>n</sub>	F	構造式	mp(°C)	NI(°C)
E T 2 F		C <sub>2</sub> H <sub>5</sub>	F		90.0	185.0
		4-fluoro-4'-ethyl cyclohexane estel phenyl tolans				
E T 3 F		C <sub>3</sub> H <sub>7</sub>	F		119.0	209.0
		4-fluoro-4'-propyl cyclohexane estel phenyl tolans				
E T 4 F		C <sub>4</sub> H <sub>9</sub>	F		106.0	202.0
		4-fluoro-4'-butyl cyclohexane estel phenyl tolans				
E T 5 F		C <sub>5</sub> H <sub>11</sub>	F		98.0	203.0
		4-fluoro-4'-pentyl cyclohexane estel phenyl tolans				

 <b>4 環エステルラン</b>						
品名	CAS No.	R <sub>n</sub>	C <sub>3</sub> H <sub>7</sub>	構造式	mp(°C)	NI(°C)
ETPC23		C <sub>2</sub> H <sub>5</sub>	C <sub>3</sub> H <sub>7</sub>		165.0	≧ 300.0
ETPC33		C <sub>3</sub> H <sub>7</sub>	C <sub>3</sub> H <sub>7</sub>		67.0	≧ 300.0

 <b>フェニルトランエステル</b> phenyl Tolans Estel						
品名	CAS No.	R <sub>n</sub>	CH <sub>3</sub>	構造式	mp(°C)	NI(°C)
T E 2 1		C <sub>2</sub> H <sub>5</sub>	CH <sub>3</sub>		121.0	215.0
		4-methyl-4'-ethyl phenyl tolans estel				
T E 3 1		C <sub>3</sub> H <sub>7</sub>	CH <sub>3</sub>		124.0	219.0
		4-methyl-4'-propyl phenyl tolans estel				
T E 4 1		C <sub>4</sub> H <sub>9</sub>	CH <sub>3</sub>		107.0	203.0
		4-methyl-4'-butyl phenyl tolans estel				
T E 5 1		C <sub>5</sub> H <sub>11</sub>	CH <sub>3</sub>		110.0	202.0
		4-methyl-4'-pentyl phenyl tolans estel				

 <b>シアノフェニルトランエステル</b> cyano phenyl Tolans Estel						
品名	CAS No.	R <sub>n</sub>	CN	構造式	mp(°C)	NI(°C)
T E 2 C N		C <sub>2</sub> H <sub>5</sub>	CN		133.0	268.0
		4-cyano-4'-ethyl phenyl tolans estel				
T E 3 C N		C <sub>3</sub> H <sub>7</sub>	CN		140.0	268.0
		4-cyano-4'-propyl phenyl tolans estel				

TE4CN		C <sub>4</sub> H <sub>9</sub>	CN		95.0	239.0
		4-cyano-4'-butyl phenyl tolans ester				
TE5CN		C <sub>5</sub> H <sub>11</sub>	CN		85.0	236.0
		4-cyano-4'-pentyl phenyl tolans ester				

							<b>Fフェニルトランエステル fluoro phenyl Tolans Estel</b>	
品名	CAS No.	R <sub>n</sub>	F	構造式	mp(°C)	NI(°C)		
TE2F		C <sub>2</sub> H <sub>5</sub>	F		131.0	193.0		
		4-fluoro-4'-ethyl phenyl tolans ester						
TE3F		C <sub>3</sub> H <sub>7</sub>	F		129.0	194.0		
		4-fluoro-4'-propyl phenyl tolans ester						
TE4F		C <sub>4</sub> H <sub>9</sub>	F		109.0	183.0		
		4-fluoro-4'-butyl phenyl tolans ester						
TE5F		C <sub>5</sub> H <sub>11</sub>	F		116.0	182.0		
		4-fluoro-4'-pentyl phenyl tolans ester						

							<b>FFフェニルトランエステル bifluoro phenyl Tolans Estel</b>	
品名	CAS No.	R <sub>n</sub>	2F	構造式	mp(°C)	NI(°C)		
TE2FF		C <sub>2</sub> H <sub>5</sub>	FF		113.0	162.0		
		3,4-bifluoro-4'-ethyl phenyl tolans ester						
TE3FF		C <sub>3</sub> H <sub>7</sub>	FF		107.0	169.0		
		3,4-bifluoro-4'-propyl phenyl tolans ester						
TE4FF		C <sub>4</sub> H <sub>9</sub>	FF		115.0	157.0		
		3,4-bifluoro-4'-butyl phenyl tolans ester						
TE5FF		C <sub>5</sub> H <sub>11</sub>	FF		122.0	160.0		
		3,4-bifluoro-4'-pentyl phenyl tolans ester						