

液晶材料一覧

トラン系 (エステル・トラン、トラン・エステルを含む) 改訂(追加) 2021年8月5日 LCC

有無は物性表の有無を表し、○は有です。

R_n --C≡C-- R_m								フェニルトラン Phenyl Tolanns	
品名	CAS No.	有無	R_n	R_m	構造式	mp(°C)	NI(°C)		
PT10			CH ₃	—					
			4'-methyl phenyl tolanns						
PT20			C ₂ H ₅	—					
			4'-ethyl phenyl tolanns						
PT21			C ₂ H ₅	CH ₃					
			4-methyl-4'-ethyl phenyl tolanns						
PT31			C ₃ H ₇	CH ₃					
			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.	有無	R_n	O- R_m	構造式	mp(°C)	NI(°C)		
PT100			—	O-CH ₃					
			4-methoxy phenyl tolanns						
PT200			—	O-C ₂ H ₅					
			4-ethoxy phenyl tolanns						
PT201			C ₂ H ₅	O-CH ₃					
			4-methoxy-4'-ethyl phenyl tolanns						
PT301			C ₃ H ₇	O-CH ₃					
			4-methoxy-4'-propyl phenyl tolanns						
PT302			C ₃ H ₇	O-C ₂ H ₅		89.0	96.0		
			4-ethoxy-4'-propyl phenyl tolanns						
PT304		○	C ₃ H ₇	O-C ₄ H ₉					
			4-butoxy-4'-propyl phenyl tolanns						
PT402	85583-83-1	○	C ₄ H ₉	O-C ₂ H ₅		25.5	81.0		
			4-ethoxy-4'-butyl phenyl tolanns						

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

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

FFトラン 3,4-fluoro Phenyl Tolans							
品名	CAS No.	有無	R _n	FF	構造式	mp(°C)	NI(°C)
PT0FF			0	FF			
		3,4-fluoro phenyl tolans					
PT 1 FF			CH ₃	FF			
		3,4-fluoro-4'-methyl phenyl tolans					
PT 2 FF	145698-42-6		C ₂ H ₅	FF		31.0	
		3,4-fluoro-4'-ethyl phenyl tolans					
PT 3 FF	145698-43-7		C ₃ H ₇	FF		34.0	
		3,4-fluoro-4'-propyl phenyl tolans					

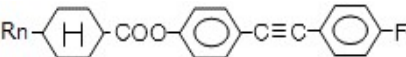
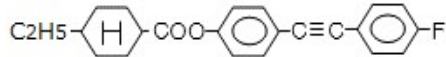
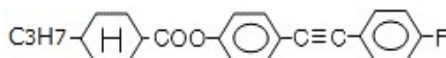
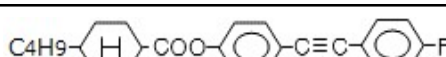
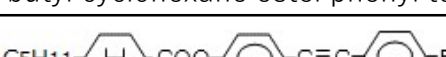
FFFトラン Tafluoro Phenyl Tolans							
品名	CAS No.	有無	R _n	FFF	構造式	mp(°C)	NI(°C)
PT2FFF			C ₂ H ₅	FFF			
		3,4,5-tafluoro-4'-ethyl phenyl tolans					

PT3FFF			C ₃ H ₇	FFF		24.0	
			3,4,5-tafluoro- 4'-propyl phenyl tolans				

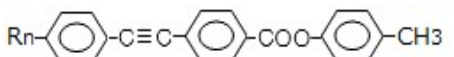
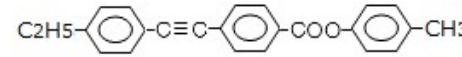
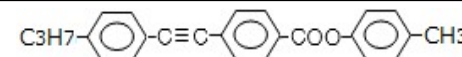
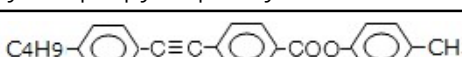
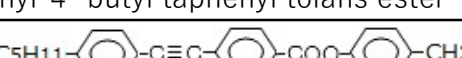
Cyclohexane Phenyl Tolans							
品名	CAS No.	有無	R _n	R _m	構造式	mp(°C)	NI(°C)
CPT 3 2			C ₃ H ₇	C ₂ H ₅			
			4-ethyl-4'-propyl cyclohexane phenyl tolans				
CPT 3 3			C ₃ H ₇	C ₃ H ₇			213.0
			4-propyl-4'-propyl cyclohexane phenyl tolans				


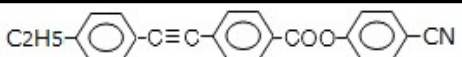
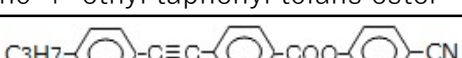
エステルラン cyclohexane Estel phenyl Tolans							
品名	CAS No.	有無	R _n	R _m	構造式	mp(°C)	NI(°C)
E T 2 0			C ₂ H ₅	—		112.0	(80.0)
			4'-ethyl cyclohexane estel phenyl tolans				
E T 3 0			C ₃ H ₇	—		110.0	148.0
			4'-propyl cyclohexane estel phenyl tolans				
E T 4 0			C ₄ H ₉	—		109.0	145.0
			4'-butyl cyclohexane estel phenyl tolans				
E T 5 0		○	C ₅ H ₁₁	—		103.0	152.0
		4'-pentyl cyclohexane estel phenyl tolans					

レキシ エステルラン alkoxy cyclohexane Estel biphenyl Tolans							
品名	CAS No.	有無	R _n	O-R _m	構造式	mp(°C)	NI(°C)
E T 2 0 1			C ₂ H ₅	O-CH ₃		93.0	240.0
			4-methoxy-4'-ethyl cyclohexane estel biphenyl tolans				
E T 3 0 1			C ₃ H ₇	O-CH ₃		96.0	257.0
			4-methoxy-4'-propyl cyclohexane estel biphenyl tolans				

 F エステルトラン F cyclohexane Estel phenyl Tolans							
品名	CAS No.	有無	R _n	F	構造式	mp(°C)	NI(°C)
ET2F			C ₂ H ₅	F	 4-fluoro-4'-ethyl cyclohexane estel phenyl tolans	90.0	185.0
ET3F			C ₃ H ₇	F	 4-fluoro-4'-propyl cyclohexane estel phenyl tolans	119.0	209.0
ET4F			C ₄ H ₉	F	 4-fluoro-4'-butyl cyclohexane estel phenyl tolans	106.0	202.0
ET5F			C ₅ H ₁₁	F	 4-fluoro-4'-pentyl cyclohexane estel phenyl tolans	98.0	203.0

 4環エステルラン							
品名	CAS No.	有無	R _n	R _m	構造式	mp(°C)	NI(°C)
ETPC23			C ₂ H ₅	C ₃ H ₇		165.0	≧ 300.0
ETPC33			C ₃ H ₇	C ₃ H ₇		67.0	≧ 300.0

 フェニルトランエステル phenyl Tolans Estel							
品名	CAS No.	有無	R _n	R _m	構造式	mp(°C)	NI(°C)
TE21			C ₂ H ₅	CH ₃	 4-methyl-4'-ethyl taphenyl tolans estel	121.0	215.0
TE31			C ₃ H ₇	CH ₃	 4-methyl-4'-propyl taphenyl tolans estel	124.0	219.0
TE41			C ₄ H ₉	CH ₃	 4-methyl-4'-butyl taphenyl tolans estel	107.0	203.0
TE51			C ₅ H ₁₁	CH ₃	 4-methyl-4'-pentyl taphenyl tolans estel	110.0	202.0

 シアノフェニルトランエステル cyano phenyl Tolans Estel							
品名	CAS No.	有無	R _n	CN	構造式	mp(°C)	NI(°C)
TE2CN			C ₂ H ₅	CN	 4-cyano-4'-ethyl taphenyl tolans estel	133.0	268.0
TE3CN			C ₃ H ₇	CN	 4-cyano-4'-propyl taphenyl tolans estel	140.0	268.0

TE4CN			C ₄ H ₉	CN		95.0	239.0
			4-cyano-4'-butyl taphenyl tolans ester				
TE5CN			C ₅ H ₁₁	CN		85.0	236.0
			4-cyano-4'-pentyl taphenyl tolans ester				

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

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