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## Molecular Crystals and Liquid Crystals

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## Discogens

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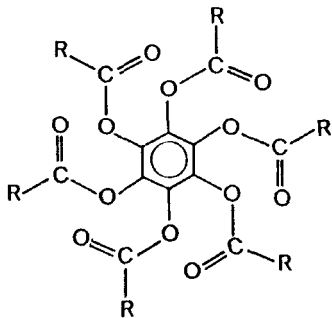
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## **DISCOGENS**

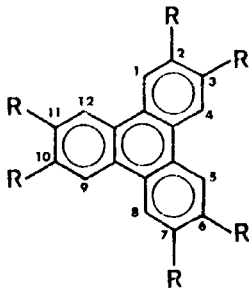
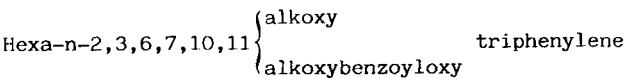
Hexa-n-alkanoates of hexaphenol



R	K <sub>1</sub>	K <sub>2</sub>	D <sub>B</sub>	I	Ref	
					Ph	Tr
C <sub>5</sub> H <sub>11</sub>	. 75.7	. 94.5	—	.		88
			.	(87)		88*
	3.8	7.9				88
	39	493		25.3		88*
	11.68	1.82				
C <sub>6</sub> H <sub>13</sub>		. 81.2	.	87		88
			ρ0.88 <sub>79.8</sub>	<b>R0.49<sup>a</sup></b> ρ0.87 <sub>90.3</sub>	237	237
C <sub>7</sub> H <sub>15</sub>		. 79.8	.	83.4		88
		10.7		4.5		88
		126		163		88*
		12.3		3.5		88
			ρ0.81 <sub>73.3</sub>	<b>R0.64<sup>a</sup></b> ρ0.79 <sub>85.1</sub>	237	237

a On cooling

For the structure of the discophase see ref.130



R	K	D <sub>E</sub>	I	Ref	
				Ph	Tr
C <sub>8</sub> H <sub>17</sub> O-	.	66.8	.	85.6	.
	.	19.32	.	1.04	.
	.	48.7	.	340	.
	.	48	.	0.4	.
	K	D <sub>F</sub>		I	
				Ph	Tr
	.	155	.	177	.
	.	34	.	52.7	157.8
					Ref
					Ph Tr
					253
					23 <sup>a</sup> *

a    Instable at atmospheric pressure,  $\frac{dP}{dT}$  under 100 bars

For the structure of the discophase see ref.215