

## Electrochromic materials

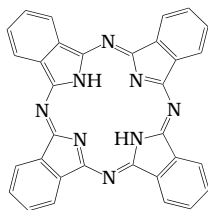
With the rapid development of optoelectronic fields, electrochromic (EC) materials and devices have received remarkable attention and have shown attractive potential for use in emerging wearable and portable electronics, electronic papers/billboards, seethrough displays, and other new-generation displays. Electrochromism refers to the persistent and reversible change in color by applying an electric field. The phenomenon involves the insertion and extraction of electrons and ions within the active material. There is a keen interest in electrochromic (EC) materials, since they exhibit a wide range of potential applications.

### Inorganic electrochromic materials

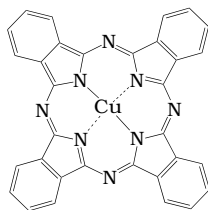
Product No.	Product Name	CAS No.	Formula	Grade
LT-E003	Molybdenum(VI) Oxide	1313-27-5	MoO <sub>3</sub>	>99.998%
LT-EC001	Tungsten(VI) Oxide	1314-35-8	WO <sub>3</sub>	>99.9%
LT-EC002	Niobium(V) Oxide	1313-96-8	Nb <sub>2</sub> O <sub>5</sub>	>99.9%
LT-EC003	Titanium(IV) Oxide	13463-67-7	TiO <sub>2</sub>	>99%
LT-EC004	Nickel(II) Oxide	1313-99-1	NiO	>99%
LT-EC005	Iridium(IV) Oxide	12030-49-8	IrO <sub>2</sub>	>99%
LT-EC006	Iron(III) Ferrocyanide	14038-43-8	C <sub>18</sub> Fe <sub>7</sub> N <sub>18</sub>	
LT-EC007	Vanadium(V) Oxide	1314-62-1	V <sub>2</sub> O <sub>5</sub>	>99%
LT-EC008	Cobalt(II) Oxide	1307-96-6	CoO	>99.9%
LT-EC009	Rhodium(III) Oxide	13036-35-0	Rh <sub>2</sub> O <sub>3</sub>	>99.9%

### Organic electrochromic small molecular materials

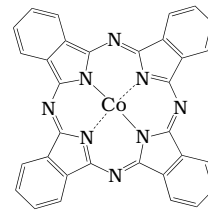
LT-N222 H<sub>2</sub>PC  
[574-93-6], Sublimed Product



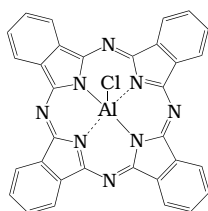
LT-E201 CuPC  
[147-14-8], Sublimed >99%



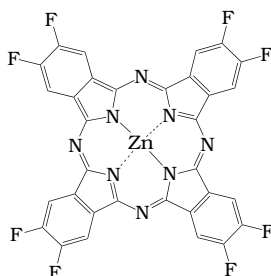
LT-D2001 CoPC  
[3317-67-7], Sublimed Product



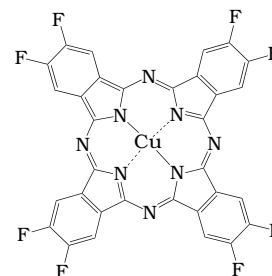
LT-S9025 AlPCCI  
[14154-42-8], Sublimed Product



LT-S9172 F<sub>8</sub>ZnPC  
[676519-80-5], Sublimed >99%

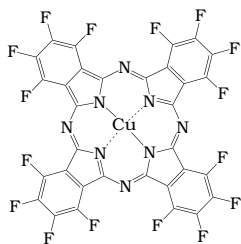


LT-D2010 2,3-F<sub>8</sub>CuPC  
[148651-60-9], Sublimed Product

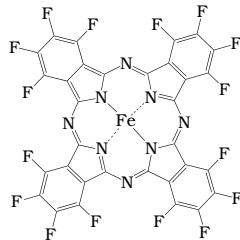


## Organic electrochromic small molecular materials

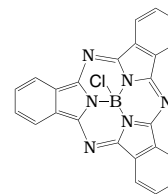
LT-S928 F<sub>16</sub>CuPC  
[14916-87-1], Sublimed Product



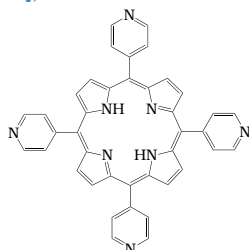
LT-S9177 F<sub>16</sub>FePC  
[23844-93-1], Sublimed >99%



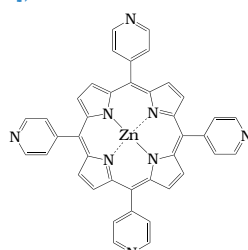
LT-S943 SubPC  
[36530-06-0], Sublimed >99%



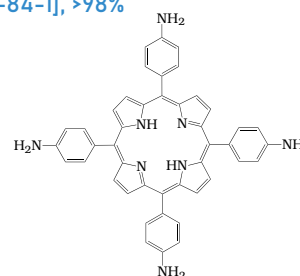
LT-D0033 TPP  
[16834-13-2], >98%



LT-D0034 ZnTPP  
[31183-11-6], >98%

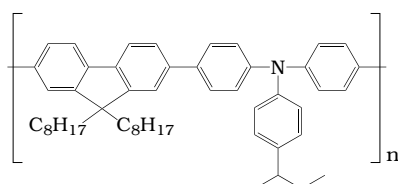


LT-D0036 H<sub>2</sub>TAPP  
[22112-84-1], >98%

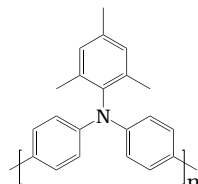


## Organic electrochromic polymer materials

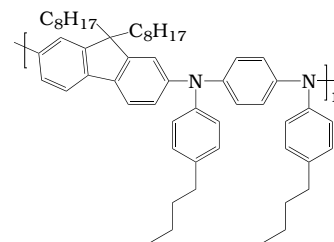
LT-N148 TFB  
[220797-16-0], M.W. >30,000



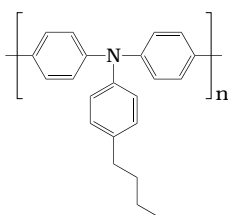
LT-N168 PTAA  
[1333317-99-9], M.W. >20,000



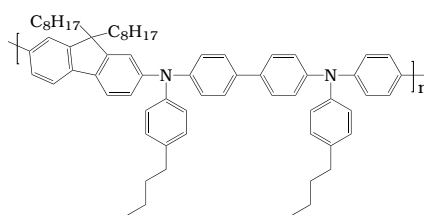
LT-N172  
[1115424-53-7], M.W. >10,000



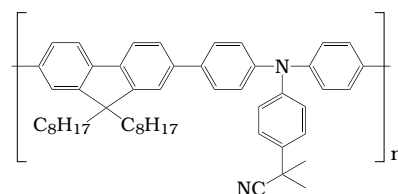
LT-N149 Poly-TPD  
[472960-35-3], M.W. >20,000



LT-N170 BFB  
[223569-32-2], M.W. >10,000

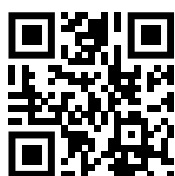


LT-N189 CNPr-PFB  
M.W. >10,000



## Custom Synthesis

Lumtec also offers customize synthesis and bulk chemicals with competitive cost, efficient lead time and highest quality. As a material manufacturer, Lumtec has professional experiences in wide range of synthesis. Any custom product you would like for us to synthesize is welcomed!



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