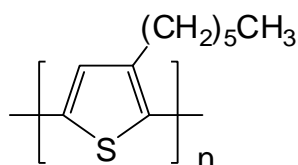


OPV Materials: Polymer Materials

LT-S909

P3HT

Poly(3-hexylthiophene-2,5-diyl)

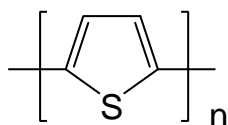


Formula	: (C ₁₀ H ₁₄ S) _n
CAS No.	: 104934-50-1
Type	: Regioregular(Electronic Grade)
Glass Transition Temperature	: 214°C
Thermal Gravimetric Analysis	: 380°C (0.5% weight loss)
Absorption	: 445nm (in THF)
Photoluminescence	: 564nm (in THF)

LT-S911

PT

Poly(thiophene-2,5-diyl)

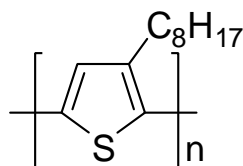


Formula	: (C ₄ H ₂ S) _n
CAS No.	: 25233-34-5
Thermal Gravimetric Analysis	: 228°C (0.5% weight loss)
Absorption	: 427nm (in CH ₂ Cl ₂)
Photoluminescence	: 510nm (in CH ₂ Cl ₂)

LT-S930

P3OT

Poly(3-octylthiophene-2,5-diyl)

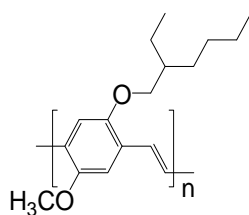


Formula	: (C ₁₂ H ₁₈ S) _n
CAS No.	: 104934-51-2
Thermal Gravimetric Analysis	: 380°C (0.5% weight loss)
Absorption	: 445nm (in THF)
Photoluminescence	: 564nm (in THF)

LT-S931

MEH-PPV

Poly[1-methoxy-4-(2-ethylhexyloxy-2,5-phenylenevinylene)]

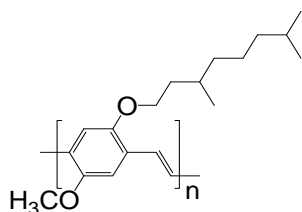


Formula	: (C ₁₇ H ₂₄ O ₂) _n
Mw	: 100,000~1500,000
CAS No.	: 138184-36-8
Thermal Gravimetric Analysis	: 288°C (0.5% weight loss)
Absorption	: 501nm (in CH ₂ Cl ₂)
Photoluminescence	: 557nm (in CH ₂ Cl ₂)

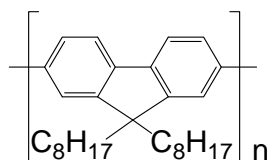
LT-S932

MDMO-PPV

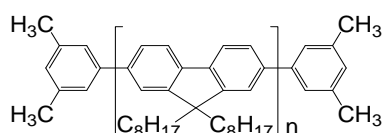
Poly[2-methoxy-5-(3,7-dimethyloctyloxy)-1,4-phenylenevinylene]



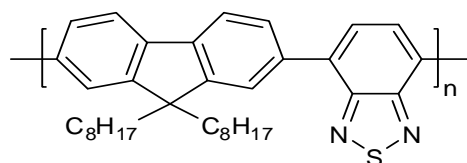
Formula	: (C ₁₉ H ₂₈ O ₂) _n
CAS No.	: 177716-59-5
Thermal Gravimetric Analysis	: 270°C (0.5% weight loss)
Absorption	: 485nm (in THF)
Photoluminescence	: 555nm (in THF)

LT-S933**PFO****Poly(9,9-dioctylfluorenyl-2,7-diyl)**

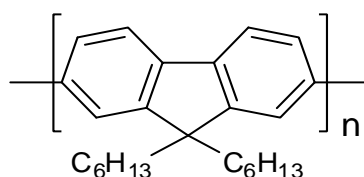
Formula : $(C_{29}H_{40})_n$
 Mw : 100,000~1500,000
 CAS No. : 19456-48-5
 Thermal Gravimetric Analysis : 330°C (0.5% weight loss)
 Absorption : 376nm (in THF)
 Photoluminescence : 426,440nm (in THF)

LT-S934**PFO-DMP****Poly(9,9-dioctylfluorenyl-2,7-diyl) end capped with dimethylphenyl**

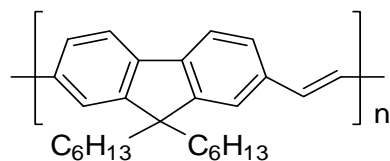
Formula : $C_{16}H_{18}(C_{29}H_{40})_n$
 Thermal Gravimetric Analysis : 380°C (0.5% weight loss)
 Absorption : 368nm (in THF)
 Photoluminescence : 421nm (in THF)

LT-S957**F8BT****Poly[(9,9-di-n-octylfluorenyl-2,7-diyl)-alt-(benzo[2,1,3]thiadiazol-4,8-diyl)]****New**

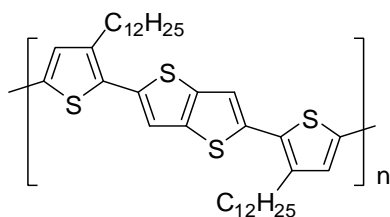
Formula : $(C_{35}H_{42}N_2S)_n$
 Mw : 20000~50000
 Thermal Gravimetric Analysis : 363°C (0.5% weight loss)
 Absorption : 453nm (in THF)
 Photoluminescence : 645nm (in THF)

LT-S958**PHF****Poly(9,9-dihexylfluorenyl-2,7-diyl)****New**

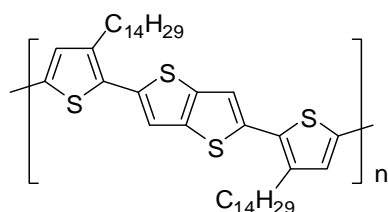
Formula : $(C_{25}H_{32})_n$
 Mw : 80000~150000
 CAS No. : 2014807-75-2
 Thermal Gravimetric Analysis : 401°C (0.5% weight loss)
 Absorption : 389nm (in THF)
 Photoluminescence : 418nm (in THF)

LT-S959**PDHFV****Poly(9,9-di-n-hexylfluorenylenevinylene-2,7-diyl)****New**

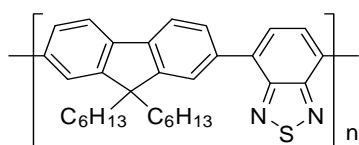
Formula : $(C_{27}H_{34})_n$
 Mw : 5000~15000
 Absorption : 400nm (in CH₂Cl₂)
 Photoluminescence : 455nm (in CH₂Cl₂)

LT-S981**PBTTT-C12****Poly[2,5-bis(3-dodecylthiophen-2-yl)thieno[3,2-b]thiophene]****New**

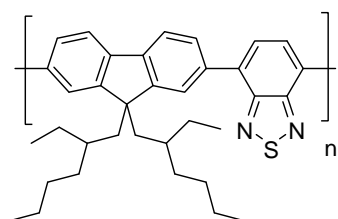
Formula : $(C_{38}H_{54}S_4)_n$
 Mw : 40000~80000
 Absorption : 547nm (in CH_2Cl_2)

LT-S982**PBTTT-C14****Poly[2,5-bis(3-tetradecylthiophen-2-yl)thieno[3,2-b]thiophene]****New**

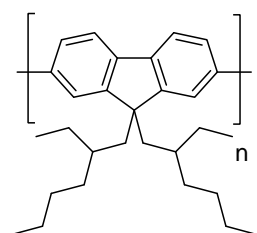
Formula : $(C_{42}H_{62}S_4)_n$
 Mw : 40000~80000
 Absorption : 547nm (in CH_2Cl_2)
 Reference : *Appl. Phys. Lett.*, 92, 113309, 2008

LT-S9002**F6BT****Poly[(9,9-di-n-hexylfluorenyl-2,7-diyl)-alt-(benzo[2,1,3]thiadiazol-4,8-diyl)]****New**

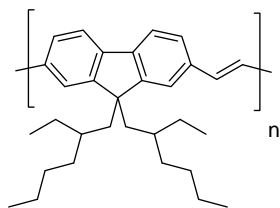
Formula : $(C_{31}H_{34}N_2S)_n$
 Mw : 20000~50000
 Thermal Gravimetric Analysis : 373°C (0.5% weight loss)
 Absorption : 453nm (in THF)
 Photoluminescence : 645nm (in THF)

LT-S9003**F2EHBT****Poly[(9,9-bis(2-ethylhexyl)fluorenyl-2,7-diyl)-alt-(benzo[2,1,3]thiadiazol-4,8-diyl)]****New**

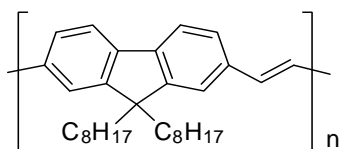
Formula : $(C_{35}H_{42}N_2S)_n$
 Mw : 20000~50000
 Thermal Gravimetric Analysis : 363°C (0.5% weight loss)
 Absorption : 453nm (in THF)
 Photoluminescence : 645nm (in THF)

LT-S9004**PF2EH****Poly[9,9-bis(2-ethylhexyl)fluorenyl-2,7-diyl]****New**

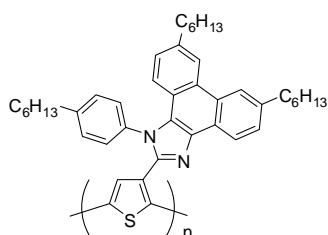
Formula : $(C_{29}H_{40})_n$
 Mw : 80000~150000
 Thermal Gravimetric Analysis : 390°C (0.5% weight loss)
 Absorption : 389nm (in THF)
 Photoluminescence : 418nm (in THF)

LT-S9005**PD2EHFV****Poly[9,9-bis(2-ethylhexyl)fluorenylenevinylene-2,7-diyl]****New**

Formula : $(C_{31}H_{42})_n$
 Mw : 5000~15000
 Absorption : 400nm (in CH_2Cl_2)
 Photoluminescence : 455nm (in CH_2Cl_2)

LT-S9006**PDOFV****Poly(9,9-di-n-octylfluorenylenevinylene-2,7-diyl)****New**

Formula : $(C_{31}H_{42})_n$
 Mw : 5000~15000
 Absorption : 400nm (in CH_2Cl_2)
 Photoluminescence : 455nm (in CH_2Cl_2)

LT-S9022**PHPIT****Poly[(2,5-dibromothiophen-3-yl)-6,9-dihexyl-1-(4-hexylphenyl)-1Hphenanthro-[9,10-d]-imidazole]****New**

Formula : $C_{39}H_{50}N_2(C_4H_2S)_n$
 Mw : 10000~30000