



## Self-Assembled Monolayer Precursors

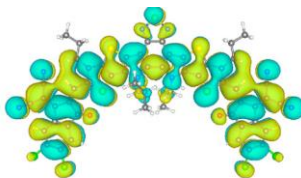
**1-Material Inc**

2290 Chemin St-Francois  
Dorval, Quebec  
H9P 1K2, Canada

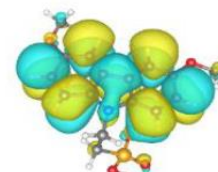
Organic Nano Electronic(ONE=1)materials for these who understand quality



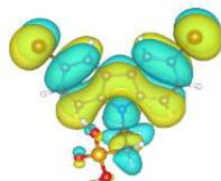
$E_{LUMO} = -2.97$  eV



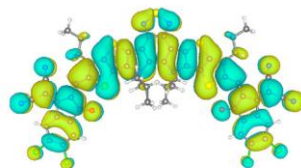
$E_{LUMO} = -3.89$  eV



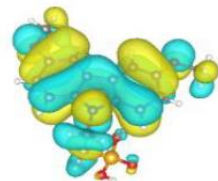
$E_{LUMO} = -2.50$  eV



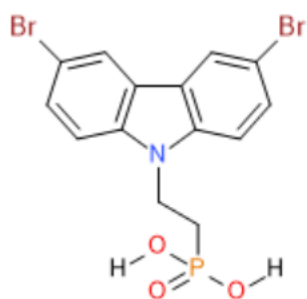
$E_{HOMO} = -6.10$  eV



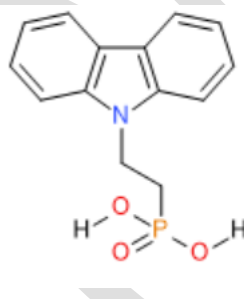
$E_{HOMO} = -5.87$  eV



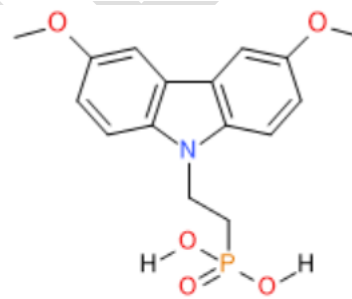
$E_{HOMO} = -5.32$  eV



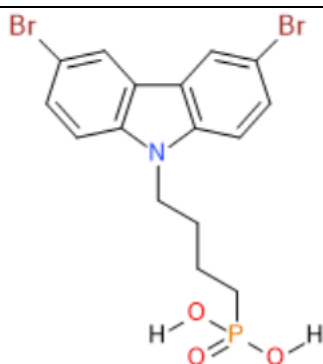
**Br-2PACz**



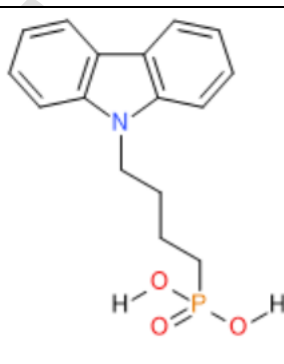
20999-38-6  
**2PACz**



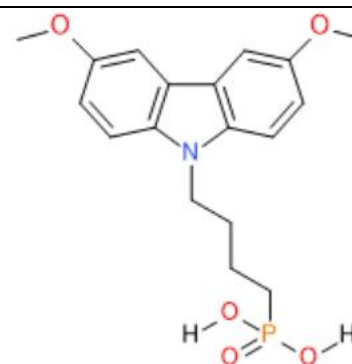
2377770-18-6  
**MeO-2PACz**



**Br-4PACz**



20999-36-4  
**4PACz**



**MeO-4PACz**

Self-assembly monolayer(SAM) on ITO enables efficient, versatile and stable photovoltaic cells made from either organic semiconductors (10.1002/cssc.202100707) or perovskite materials (10.1002/aenm.201801892), by optimizing work-function of ITO and facilitating charge extraction and transportation.

Other molecules with phosphonic acid anchoring groups can be custom made, please contact [info@1-material.com](mailto:info@1-material.com)

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