

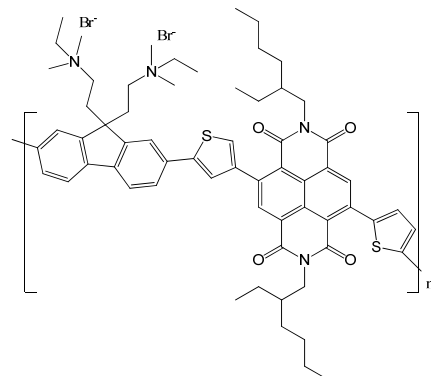


## Counterion-Tunable n-type Conjugated Polyelectrolytes for the Interface Engineering of Efficient Polymer Solar Cells

### Product Specifications

**LT-S9289 PNDIT-F3N-Br**

<b>Name.</b>	Poly[[2,7-bis(2-ethylhexyl)-1,2,3,6,7,8-hexahydro-1,3,6,8-tetraoxobenzo[ <i>lmn</i> ][3,8]phenanthroline-4,9-diyl]-2,5-thiophenediyl[9,9-bis[3'((N,N-dimethyl)-N-ethylammonium)]propyl]-9 <i>H</i> -fluorene-2,7-diyl]-2,5-thiophenediyl]
<b>CAS No.</b>	2169941-79-9
<b>Grade</b>	M <sub>w</sub> > 10,000 (GPC)
<b>Formula</b>	C <sub>65</sub> H <sub>80</sub> Br <sub>2</sub> N <sub>4</sub> O <sub>4</sub> S <sub>2</sub>
<b>Absorption</b>	380, 580 nm(in Methanol)



\* Reference: *J. Mater. Chem. A*, **2017**, *5*, 19447–19455

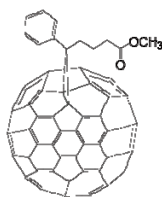
### Features

- N-type conjugated polyelectrolytes (CPEs) are promising electron transport materials (ETMs) in high performance polymer solar cells (PSCs). PSCs with these CPEs as ETMs can deliver high power conversion efficiency (PCE) up to 10.5%, and over 9.5% PCE can be maintained even when these CPEs are used as thick (80 nm) ETMs.

### Device Application

**The Best Device:**

ITO/PEDOT:PSS/ NT812:PC<sub>71</sub>BM/PNDIT-F3N-Br (5 nm)/ Ag.



LT-S923 PC<sub>71</sub>BM

PEDOT:PSS =  
LT-PS001

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

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