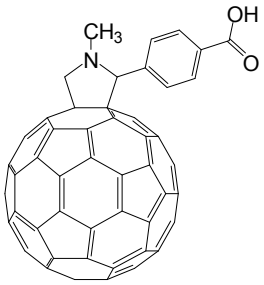
Lumtec Luminescence Technology Corp.

# Modification for Highly Efficient Organic-Inorganic Perovskite Solar Cells

## Product Specifications

### LT-S9161 $C_{60}$-COOH-SAM

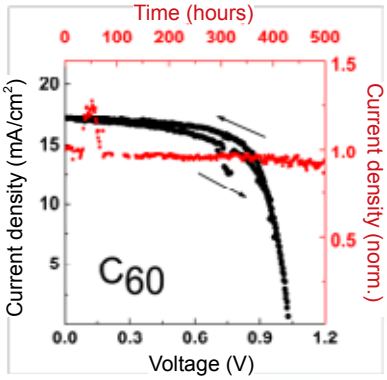



| | |
|---|---|
| **CAS No.** | 631918-72-4 |
| **Grade** | > 99% (HPLC) |
| **Formula** | $C_{70}H_{11}NO_2$ |
| **Molecular Weight** | 897.84 g/mole |
| **Absorption** | 345 nm(in $CH_2Cl_2$) |

*Reference : 1. Journal of Physical Chemistry Letters (2015), 6(12), 2399-2405*
*2. ACS Nano (2014), 8(12), 12701-12709*

## Features

- Efficient devices replacing the commonly employed $TiO_2$ compact layer with fullerene $C_{60}$($C_{60}$-COOH-SAM) in a regular n–i–p architecture.
- It shows preliminary stability data of perovskite solar cells under working conditions, suggesting that an n-type organic charge collection layer can increase the long-term performance.
  *Figure reference: Journal of Physical Chemistry Letters

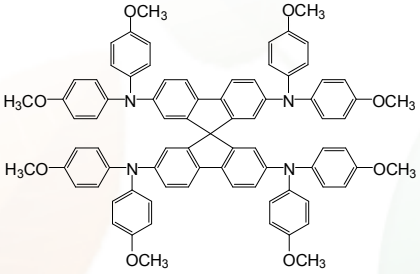



## Device Application

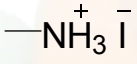
**The Best Device :**

FTO/ $C_{60}$-COOH-SAM(37 nm)/$MAPbI_{3-x}$ $Cl_x$/Spiro-MeOTAD: tBP:Li-TFSI/Au(50 nm)

Related products from Lumtec :




LT-S922 Spiro-MeOTAD




LT- S9126 MAI

$PbI_2$

LT-S9147 $PbI_2$

Our products are used for testing and research purpose; they are not guaranteed in patent contention by customer use.
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