

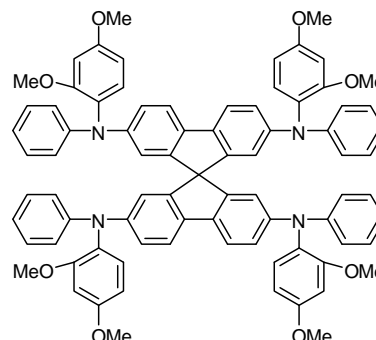


Structure-Performance Relationship on the Asymmetric Methoxy Substituents of Spiro-OMeTAD for Perovskite Solar Cells

Product Specifications

LT-S9437 2,4-spiro-OMeTAD

Name.	N2,N2',N7,N7'-tetrakis(2,4-dimethoxyphenyl)-N2,N2',N7,N7'-tetraphenyl-9,9'-spirobi[fluorene]-2,2',7,7'-tetraamine
CAS No.	2102348-92-3
Grade	Sublimed, >99 % (HPLC)
Formula	C ₈₁ H ₆₈ N ₄ O ₈
Molecular Weight	1225.43 g/mole
HOMO/LUMO	-5.24 eV/-2.08 eV



* Reference: *Solar Energy Materials and Solar Cells* 176 (2018) 318–323

Features

- PSC devices based on 2,4-spiro-OMeTAD exhibited highly improved photovoltaic performance showing an overall conversion efficiency of 17.2% with excellent stability.
- The modification of the spiro-OMeTAD core by molecular engineering of functional groups can improve the photovoltaic performance of PSCs further.

Device Application

The PSC devices:

FTO/ TiO₂/ MAPbI₃/ 2,4-spiro-OMeTAD or 3,4-spiro-OMeTAD/ Au.

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

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