
Product Data Sheet

Product Name: ITIC
 Cat. No.: GC36352

Chemical Properties

Cas. No. 1664293-06-4

SMILES O=C(C1=CC=CC=C1C2=C(C#N)\C#N)C2=C/C3=CC(SC4=C5C(C6=CC=C(CCCCCC)C=C6)(C7=CC=C(CCCCCC)C=C7)C8=C4C=C(C(C9=CC=C(CCCCCC)C=C9)(C%10=CC=C(CCCCCC)C=C%10)C%11=C%12SC%13=C%11SC(/C=C%14\C(C%15=CC=CC=C%15C%14=O)=C(C#N)\C#N)=C%13

Formula C₉₄H₈₂N₄O₂S₄

M.Wt

1427.94

Solubility Soluble in DMSO

Storage

Store at -20°C

General For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be tips 20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.
 Condition

Structure

Background

ITIC, non-fullerene acceptor, is an indacenodithienothiophene-based postfullerene electron acceptor, crystallizes in a profoundly different way as compared to fullerenes. ITIC has a superior thermal stability and undergoes a glass-crystal transition considerably below its high T_g of 180 °C.

[1]. Yu L, et al. Diffusion-Limited Crystallization: A Rationale for the Thermal Stability of Non-Fullerene Solar Cells. ACS Appl Mater Interfaces. 2019 Jun 19;11(24):21766-21774.

Caution: Product has not been fully validated for medical applications. For research use only.

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