Scapex Exports Pvt. Ltd.
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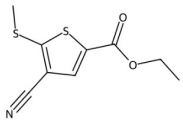
CIN U46909GJ2025PTC164345

CERTIFICATE OF ANALYSIS Standard product specification

Ethyl 4-cyano-5-(methylthio)thiophene-2-carboxylate

CAS 116170-84-4 · C9H9NO2S2 · 97% min.



STRUCTURAL FORMULA

1. PRODUCT IDENTITY

Product name	Ethyl 4-cyano-5-(methylthio)thiophene-2-carboxylate
C.A.S. number	116170-84-4
Molecular formula	C9H9NO2S2
Molecular weight	227.31 g/mol
Grade / standard	97% min.
Description	Appearance as per specification
Product group	Heterocyclic Building Blocks
Category	Pharmaceutical Intermediates
Country of origin	India
Packing	Bags, drums, carboys, IBC or ISO tank as applicable — customer-specified packing available
Storage	Cool, dry, well-ventilated place in tightly closed original packing

2. ANALYTICAL SPECIFICATION

S. NO.	TEST PARAMETER	SPECIFICATION	TYPICAL RESULT	METHOD
1	Description	Appearance as per specification	Complies	Visual
2	Identification	Conforms to the structure of the substance	Complies	FTIR / Chemical test
3	Solubility	As per specification	Complies	Visual / Monograph
4	Assay	Not less than 97.0 % w/w	98.29	Titrimetry / Instrumental

5	Clarity & Colour of Solution	Clear; not more intensely coloured than reference	Complies	Visual (Monograph)
6	pH (1 % w/v aqueous solution)	As per monograph	6.8	Potentiometry
7	Water Content (Karl Fischer)	Not more than 0.5 % w/w	0.12	Karl Fischer titration
8	Melting Range / Point	As per monograph	Complies	Capillary method
9	Particle Size (d90)	As per specification	78 µm	Laser diffraction

3. DECLARATION

This document sets out the standard specification for Ethyl 4-cyano-5-(methylthio)thiophene-2-carboxylate and applies to all consignments of this product and grade supplied by Scapex Exports Pvt. Ltd. It is not a lot-specific release document; a lot-specific certificate carrying the analysis of the material actually shipped is issued with, and travels with, each consignment. Scapex Exports supplies against customer-specified assay limits and pharmacopoeial standards — send your specification sheet and we confirm compliance in writing before the order is accepted.

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