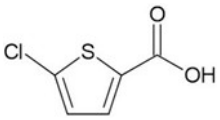
AURORA BIOPHARMA
Contact: +91-9381230515
Email: info@aurorabiopharma.in /
aurorabiopharma777@gmail.com
Website: https://aurorabiopharma.in/

TECHNICAL DATA SHEET

Product name: **5-Chloro-2-Thiophenecarboxylic Acid**



Specifications

Parameters	Specifications	Typical results
Appearance	White To Off -White Powder	Off -White Powder
Identification By HPLC	The retention time of the principal peak obtained with the substance to be examined corresponds to that of reference standard	Complies
LOD (% w/w)	NMT 0.5 %	0.33%
Identification Test By IR	Conforms To Standard	Conforms
Purity By HPLC (% Area)	NLT 99.0%	99.10%
Assay By Titrimetry (% w/w)	98.0%	101%
Melting Range (°C)	150.0 – 154.0	151.2 – 153.4

Stability and storage:

5-Chloro-2-thiophenecarboxylic acid is stable under normal storage conditions. It should be stored in a cool, dry, and well-ventilated place. The container should be tightly closed to prevent moisture or air from entering.
It is incompatible with strong oxidizing agents.

Application Area:

5-Chloro-2-thiophenecarboxylic acid is primarily used as an intermediate in the synthesis of rivaroxaban, an oxazolidinone derivative used to treat thromboembolic disorders.
The compound is also used in the synthesis of other compounds like 5-chloro-4-nitrothiophene-2-carboxylic acid.

General information

CAS No. : 24065-33-6
IUPAC Name : 5-chlorothiophene-2-carboxylic acid
Synonyms : 2-chloro-5-carboxythiophene
EC No : 480-060-6

Physical/Chemical properties:

Molecular Formula : C5H3ClO2S
Molecular weight : 162.59
Melting point : 154-158 °C
Solubility : Water, Ethanol, Diethyl ether
Physical state at 20°C : Solid

Hazard classification & labelling:

Single Word : Warning

Pictogram :

Classification according to Regulation (EC) No 1272/2008 : H317, H319

Precautionary statement(s) : P261, P272, P272, P264, P302+P352P333+P317, P305+P351+P338, P362+P364