



CERTIFICATE OF ANALYSIS

20 Martin Ross Avenue, North York, ON, M3J 2K8, CANADA
Tel: (416) 665-9696, Fax: (416) 665-4439
Email: orders.trc@lgcgroup.com Website: www.trc-canada.com

1. Identification

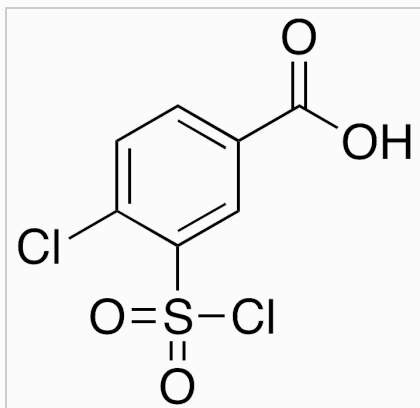
Catalogue Number: C364950

CAS Number: 2494-79-3

Product: 4-Chloro-3-(chlorosulfonyl)benzoic Acid

Synonym: 3-(Chlorosulfonyl)-4-chlorobenzoic Acid; 3-Carboxy-6-chlorobenzenesulfonyl Chloride;

Structure:



Molecular Formula:

C₇H₄Cl₂O₄S

Molecular weight:

255.08

Source of Product:

N/A

Solubility:

DMSO (Slightly), Ethyl Acetate (Slightly)

Lot Number: 711656352-4-1

Purity: 95%

Shipping Condition: This Product Is Stable To Be Shipped At Room Temperature

Storage Condition: 4°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

| Tests: | Specifications: | Results: |
|--------------------|--------------------------------|-------------------------------|
| Appearance | Off-White to Light Beige Solid | Off-White to Pale Beige Solid |
| NMR | Conforms to Structure | Conforms |
| Elemental Analysis | Conforms | %C: 31.44, %H: 1.25 |
| MS | Conforms to Structure | Conforms |

Additional Information: N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of $\pm 2\%$. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

| Reviewed By | Reviewed By | C of A Approved By | Test Date | Retest Date |
|--------------|---------------|---------------------|-----------|-------------|
| Swathi Reddy | Toni Rantanen | Christina Gouliaras | 9/1/2022 | 8/30/2026 |