

Version00Molecular weight221.62Quality Test / Release Date03/26/2020Molecular FormulaC6 H4 Cl N O4 SCAS No121-51-7

Linear Formula SO2CIC6H4NO2 Flash Point (°C)

## Certificate of Analysis

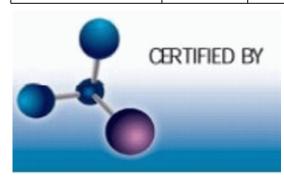
This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Acros Organics expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to human or animals. It is the responsibility of the purchaser, formulator or those performing further manufacturing to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

| Catalog Number        | 41584                               | Quality Test / Release Date 03/26/2020 |
|-----------------------|-------------------------------------|--|
| Lot Number            | A0417924                            |  |
| Description           | 3-Nitrobenzenesulfonyl chloride,97% |  |
| Country of Origin     | JAPAN                               |  |
| Declaration of Origin | synthetic                           |  |

| <b>BSE/TSE</b> comm | SE/I | SE | con | nment |
|---------------------|------|----|-----|-------|
|---------------------|------|----|-----|-------|

## **Chemical Comment**

| Result name        | Units | Specifications               | Test Value         |
|--------------------|-------|------------------------------|--------------------|
| Appearance (Color) |       | Yellow to orange light beige | light beige        |
| Appearance (Form)  |       | Crystalline powder           | Crystalline powder |
| Infrared spectrum  |       | Conforms                     | Conforms           |
| Melting point      |       | 57°C to 64°C                 | 62°C               |
| HPLC               |       | >=96.0 %                     | 99.7 %             |



L. Van den Broek, QA Manager

Acros Organics

ENA23, zone1, nr 1350, Janssen Pharmaceuticalaan 3a, B-2440 Geel, Belgium Tel +32 14/57.52.11 - Fax +32 14/59.34.34 Internet: http://www.acros.com 1 Regent Lane, Fair Lawn, NJ 07410, USA Fax 201-796-1329

Brock

Issued: 03-27-2020