



CERTIFICATE OF ANALYSIS

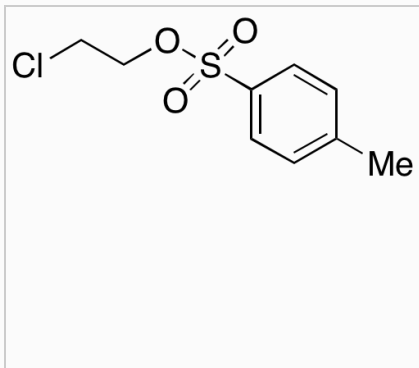
20 Martin Ross Avenue, North York, ON, M3J 2K8, CANADA
Tel: (416) 665-9696, Fax: (416) 665-4439
Email: orders.trc@lgcgroup.com Website: www.trc-canada.com

1. Identification

Catalogue Number: C363215

Product: 2-Chloroethyl 4-methylbenzenesulfonate

Structure:



CAS Number: 80-41-1

Synonym: 2-(p-Toluenesulfonyloxy)ethyl chloride; 2-Chloro-1-(p-toluenesulfonyl)ethane;

Molecular Formula:

C₉H₁₁ClO₃S

Molecular weight:

234.7

Source of Product:

N/A

Solubility:

Chloroform (Slightly),
Methanol (Slightly)

Lot Number: 1-PVA-183-1

Purity: 98%

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:
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 46.57, %H: 4.80
Appearance	Colourless to Dark Brown Oil	Clear Light Beige to Beige Oil
MS	Conforms to Structure	Conforms
GC	Report Result	99.63%

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	Chanell Chu	11/2/2021	10/31/2025
				