

Certificate of Analysis

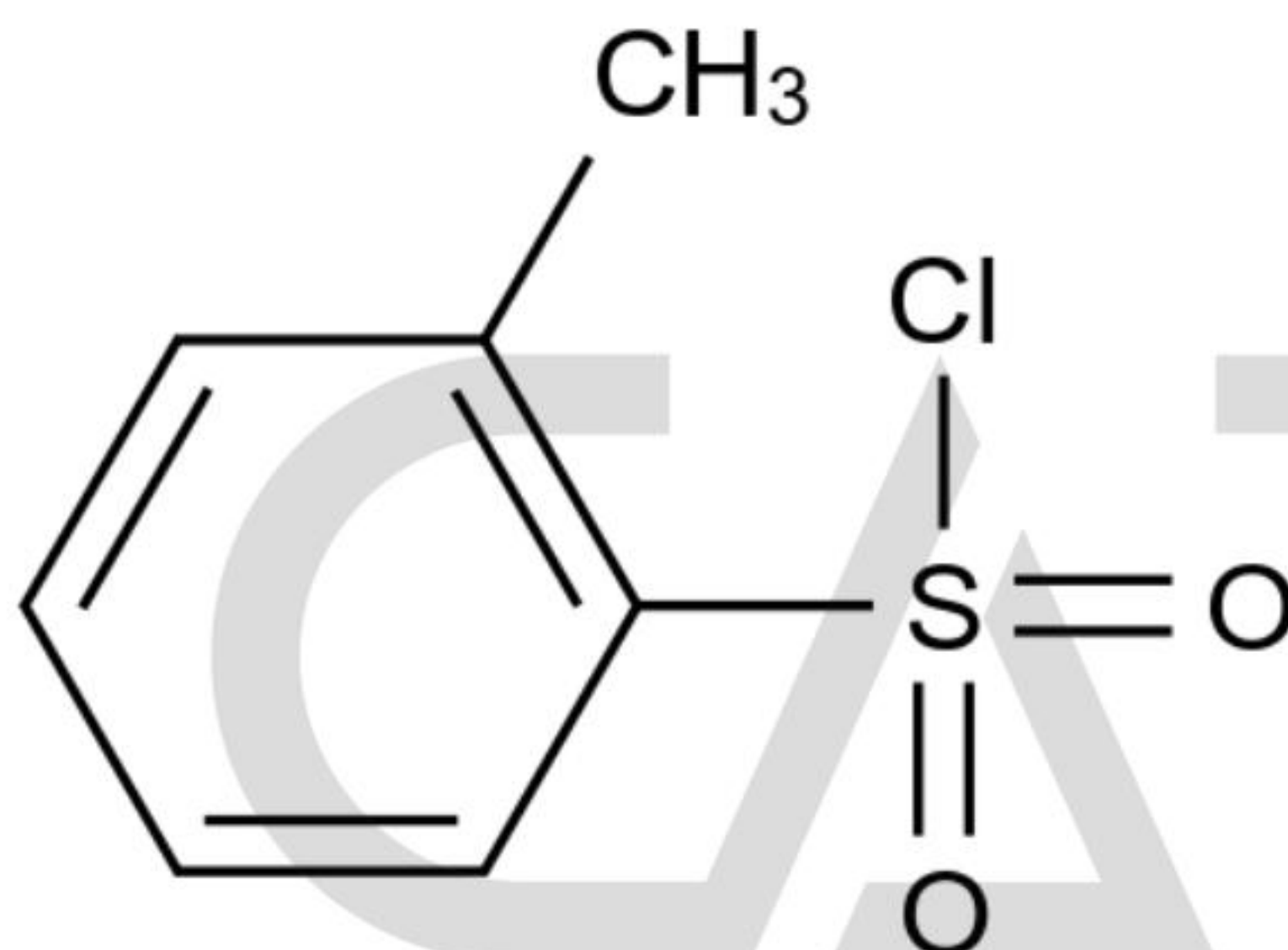
Reference Material & Standard

Product Name:	o-Toluenesulfonyl Chloride (contains ca. 23% isomer)	Catalogue Number:	C1218316
Synonyms:	N/A	Lot Number:	0902-RG-0080
CAS Number:	133-59-5	Expiry Date:	Sep 04, 2029
Molecular Formula:	C ₇ H ₇ ClO ₂ S	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	190.65	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Colourless Liquid
Identification	GCMS&IR&HNMR	Confirmed
Purity	GC	72.914%
Water Content	Karl Fischer	0.2685%
Assay		72.7%

Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Water Content) * Purity GC (%) / 100%

Water Content is considered as absolute effect, GC purity is considered as relative effect.

Signature:

Prepared by:

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Reviewed by:

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Approved by General Manager:

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Date: Mar 12, 2026

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