

Certificate of Analysis

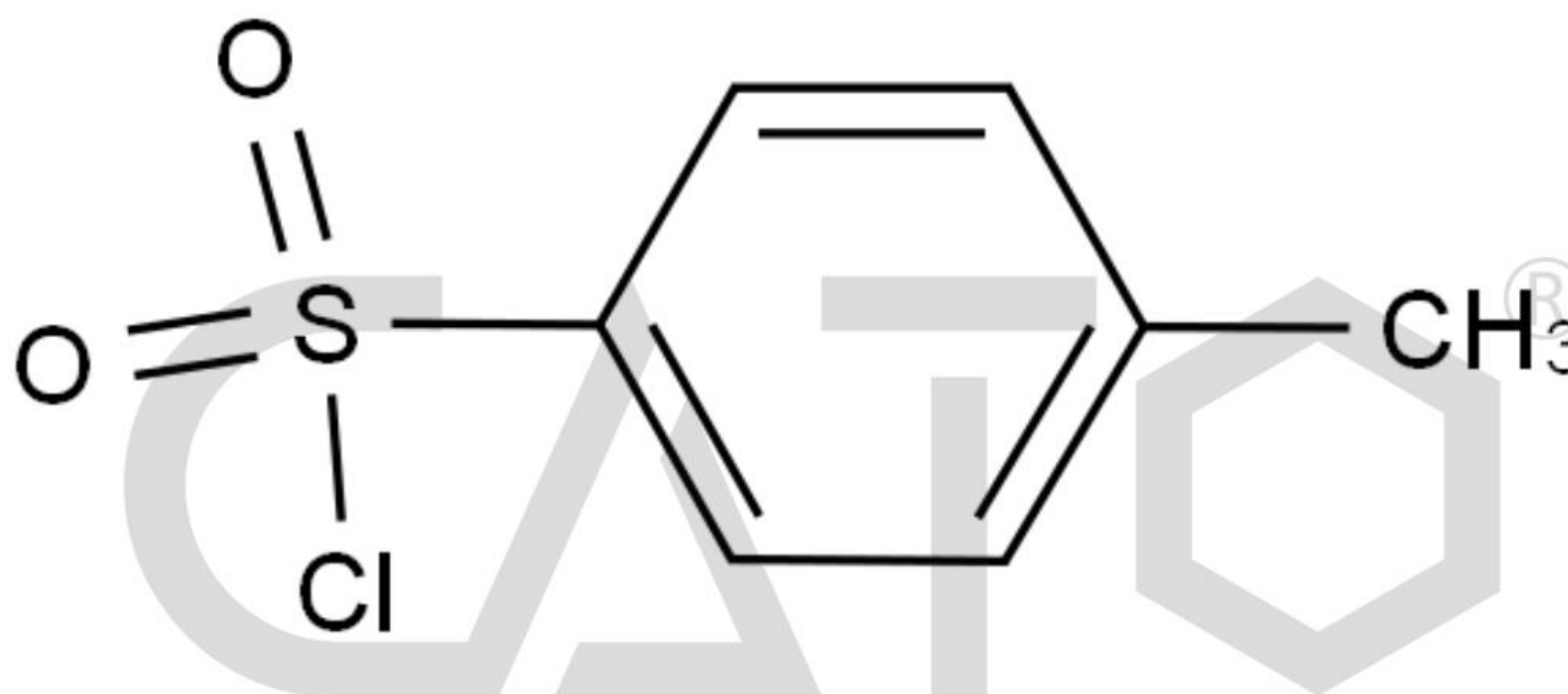
Reference Material & Standard

Product Name:	p-Toluenesulfonyl Chloride	Catalogue Number:	C3D-2018
Synonyms:	N/A	Lot Number:	0305-RH-0053
CAS Number:	98-59-9	Expiry Date:	Mar 04, 2030
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	White Solid
Identification	GCMS&IR&UV&CNMR&HNMR	Confirmed
Purity	HPLC	100.000%
Water Content	Karl Fischer	1.6058%
Assay		98.4%

Comment:

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

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

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

Signature:

Prepared by:

Koi

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Jul 14, 2026

Date: Jul 15, 2026

Date: Jul 15, 2026



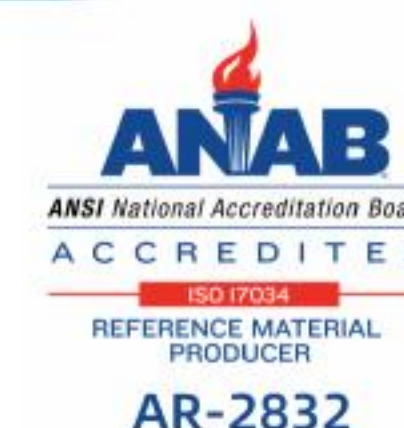
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