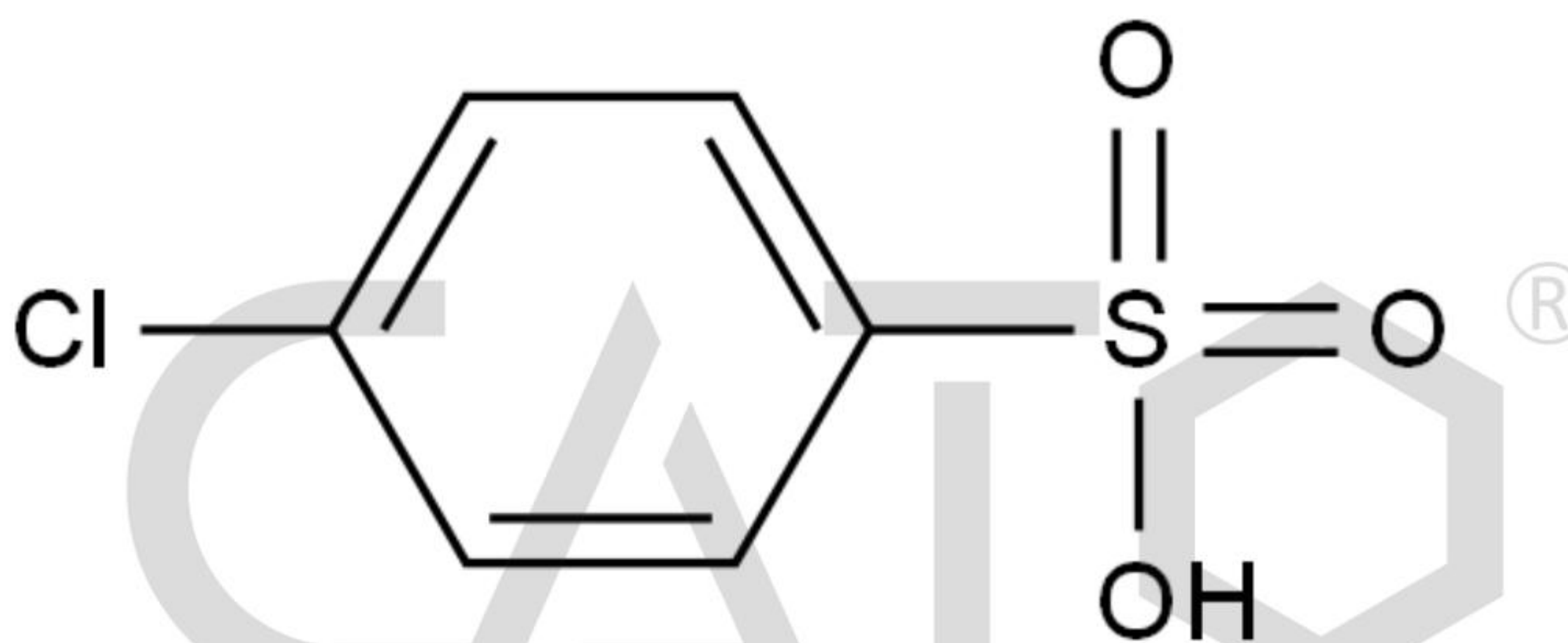


Certificate of Analysis

Reference Material & Standard

Product Name:	4-Chlorobenzenesulfonic Acid	Catalogue Number:	CS450682
Synonyms:	N/A	Lot Number:	0428-RH-0099
CAS Number:	98-66-8	Expiry Date:	May 12, 2030
Molecular Formula:	C ₆ H ₅ ClO ₃ S	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	192.62	Shipping Condition:	Shipping at Room Temperature
Solubility:	Acetonitrile	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	100.0%
Assay	qNMR	93.5%
Uncertainty		±1.3%

Comment:

The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

Nice

Reviewed by:

Lisa

Approved by General Manager:

David

Date: May 13, 2026

Date: May 13, 2026

Date: May 13, 2026



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