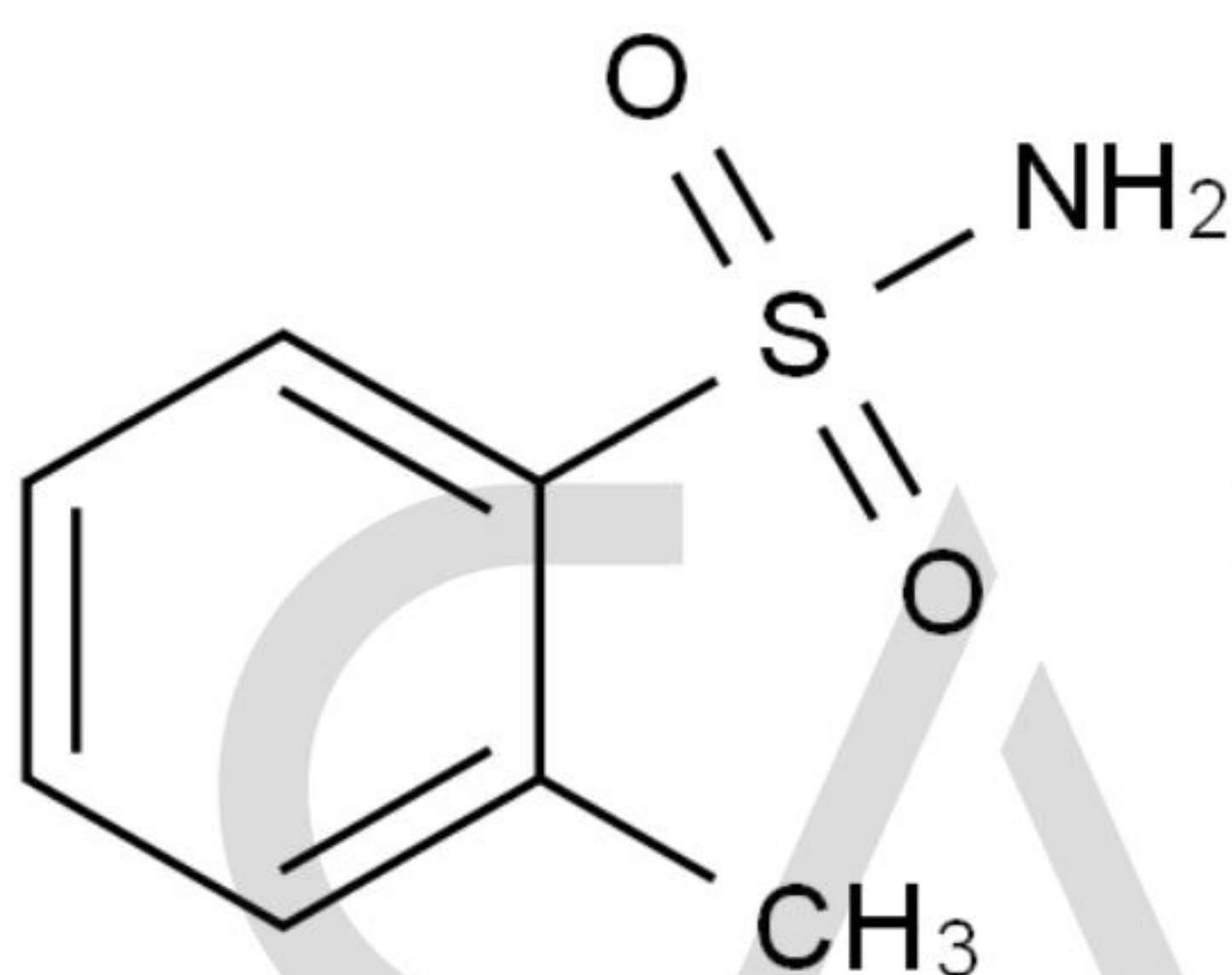


Certificate of Analysis

Reference Material & Standard

Product Name:	o-Toluenesulfonamide	Catalogue Number:	CCHM701627
Synonyms:	N/A	Lot Number:	0324-RE-0049
CAS Number:	88-19-7	Expiry Date:	Mar 22, 2027
Molecular Formula:	C7H9NO2S	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	171.22	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Powder
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	100.000%
Water Content	Karl Fischer	0.1970%
Assay		99.8%
Uncertainty		±2.0%

Comment:

1. The calculation of the 100% 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.

2. 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:

Lisa

Reviewed by:

Xenia

Aproved by General Manager:

David

Date: Mar 23, 2023

Date: Mar 24, 2023

Date: Mar 24, 2023

