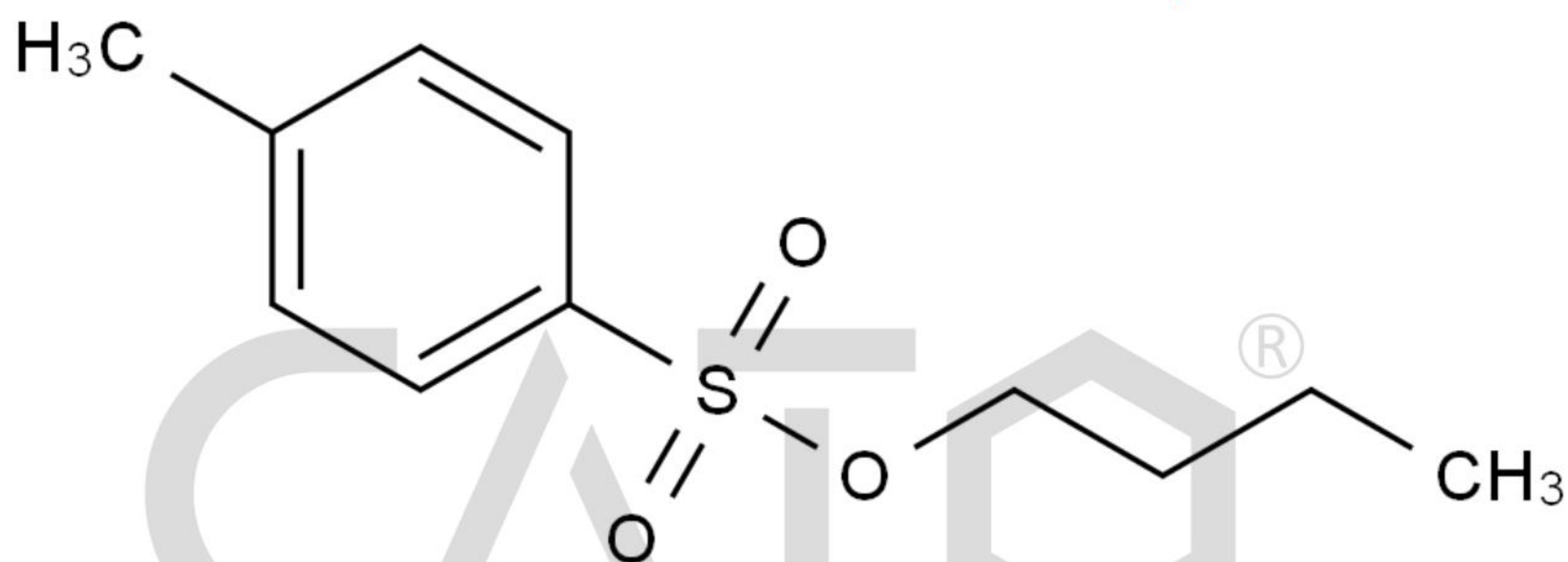


Certificate of Analysis

Reference Material & Standard

Product Name:	Butyl p-toluenesulfonate	Catalogue Number:	C3D-2207
Synonyms:	N/A	Lot Number:	0620-RG-0061
CAS Number:	778-28-9	Expiry Date:	Jun 19, 2028
Molecular Formula:	C ₁₁ H ₁₆ O ₃ S	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	228.31	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Colourless Liquid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.270%
Water Content	Karl Fischer	0.3839%
Assay		98.9%

Comment:

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.

Signature:

Prepared by:

Koi

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Jun 20, 2025

Date: Jun 20, 2025

Date: Jun 20, 2025

