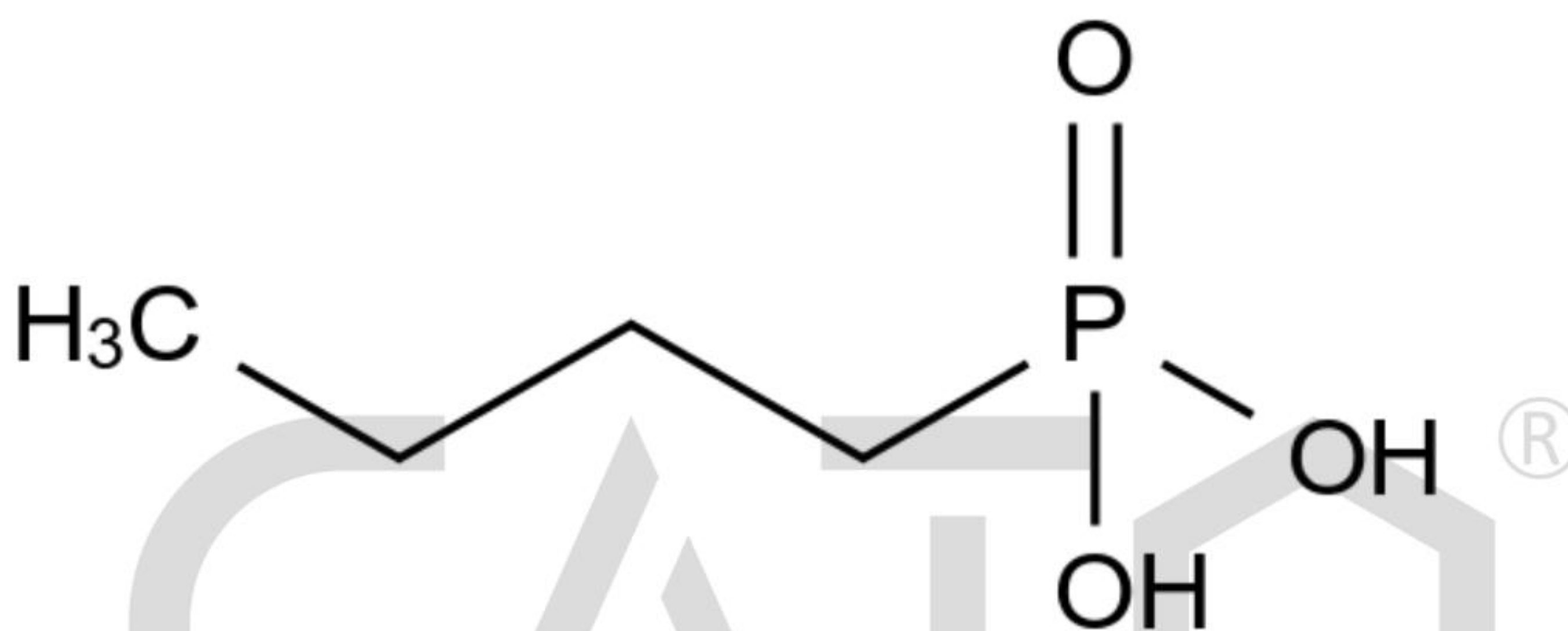


Certificate of Analysis

Reference Material & Standard

Product Name:	Butylphosphonic Acid	Catalogue Number:	C3D-25898
Synonyms:	N/A	Lot Number:	0801-RG-0072
CAS Number:	3321-64-0	Expiry Date:	Aug 01, 2029
Molecular Formula:	C ₄ H ₁₁ O ₃ P	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	138.10		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	ELSD	100.000%
Water Content	Karl Fischer	1.0177%
Assay		99.0%

Comment:

The calculation of the 100% method follows the formula (calculated on the non-dried basis):

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

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

Signature:

Prepared by:

Koi

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Aug 01, 2025

Date: Aug 01, 2025

Date: Aug 01, 2025

