

Certificate of Analysis

Reference Material & Standard

Product Name:	Tributylphosphine Oxide	Catalogue Number:	CFRT111325
Synonyms:	N/A	Lot Number:	0412-RC-0036
CAS Number:	814-29-9	Expiry Date:	Apr 13, 2025
Molecular Formula:	C ₁₂ H ₂₇ OP	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	218.32		

Warning:



Chemical Structure: N/A

Test Items	Method	Results
Appearance	Visual inspection	White Crystalline Solid
Identification	GCMS&HNMR	Confirmed
Purity	GC	99.600%
Water Content	Karl Fischer	1.2474%
Assay		98.4%
Uncertainty		±2.0%

Comment:

CATO Research Chemicals Inc.

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

$\text{Assay (\%)} = (100\% - \text{Water Content}) * \text{Purity GC (\%)} / 100\%$

Water Content is considered as absolute effect, GC 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:

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Reviewed by:

Debia

Approved by General Manager:

David

Date: Apr 14, 2021

Date: Apr 15, 2021

Date: Apr 15, 2021



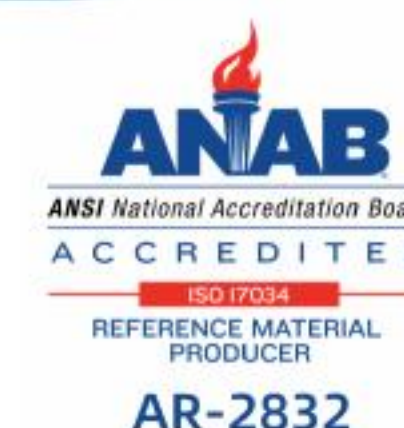
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Page 1 of 6



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