CATO Research Chemicals Inc.

Make the Tests More Accurate

ISO 17034 : 2016 | ISO 9001 : 2015

No.: 202510220136

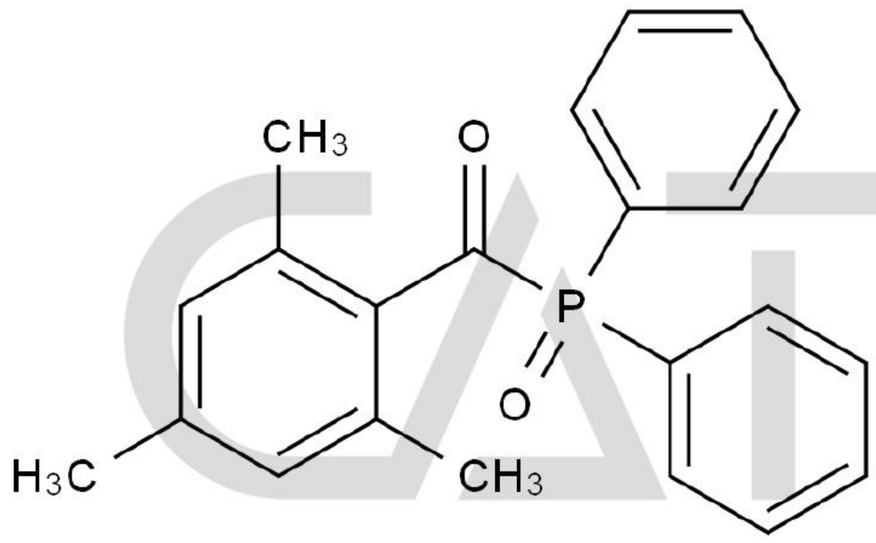
Certificate of Analysis

Reference Material & Standard

Product Name:	Diphenyl(2,4,6-Trimethylbenzoyl)Phosphine Oxide	**Catalogue Number:**	CCHM701409
Synonyms:	N/A	**Lot Number:**	1022-RG-0064
CAS Number:	75980-60-8	**Expiry Date:**	Oct 21, 2029
Molecular Formula:	$C_{22}H_{21}O_2P$	**Storage:**	Room Temp Protected from light and Sealed
Molecular Weight:	348.37		

Warning:

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Pale Yellow Crystalline Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.562%
Water Content	Karl Fischer	0.2554%
Assay		99.3%
Uncertainty		±0.2%

Comment:

1. The calculation of the mass balance 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 Date: Oct 22, 2025

Reviewed by: Hinlam Date: Oct 23, 2025

Approved by General Manager: David Date: Oct 23, 2025

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ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-2832

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