

# Lucirin TPO solid (2,4,6-trimethylbenzoyldiphenyl phosphine oxide)

Other names: (2,4,6-trimethylbenzoyl) diphenylphosphine oxide

Lucirin TPO

diphenyl (2,4,6-trimethylbenzoyl)phosphine oxide

Inchi: InChI=1S/C22H21O2P/c1-16-14-17(2)21(18(3)15-16)22(23)25(24,19-10-6-4-7-11-19)20-

InchiKey: VFHVQBAGLAREND-UHFFFAOYSA-N

Formula: C22H21O2P

SMILES: Cc1cc(C)c(C(=O)P(=O)(c2ccccc2)c2ccccc2)c(C)c1

Mol. weight [g/mol]: 348.37

## Physical Properties

Property code	Value	Unit	Source
log10ws	-15.93		Crippen Method
logp	4.766		Crippen Method
mcvol	277.460	ml/mol	McGowan Method
rinpol	2819.00		NIST Webbook
tf	365.81	K	Solubility and mixing thermodynamic properties of (2,4,6-trimethylbenzoyl) diphenylphosphine oxide in pure and binary solvents

## Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=R508515&Units=SI>

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Crippen Method: [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

Solubility and mixing thermodynamic properties of (2,4,6-trimethylbenzoyl) diphenylphosphine oxide in pure and binary solvents: <https://www.doi.org/10.1016/j.fluid.2018.01.015>

McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>

## Legend

log10ws: Log10 of Water solubility in mol/l

logp: Octanol/Water partition coefficient

**mcvol:** McGowan's characteristic volume  
**rinpola:** Non-polar retention indices  
**tf:** Normal melting (fusion) point

Latest version available from:

<https://www.cheméo.com/cid/23-335-4/Lucirin-TPO-solid-2-4-6-trimethylbenzoyldiphenyl-phosphine-oxide.pdf>

Generated by Cheméo on 2024-04-19 17:33:10.23903346 +0000 UTC m=+15837239.159610777.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.