Lucirin TPO solid (2,4,6-trimethylbenzoyldiphenyl phosphine (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
Formula: SMILES:	C22H21O2P Cc1cc(C)c(C(=O)P(=O)(c2ccccc2)c2ccccc2)c(C)c1

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	К	Solubility and mixing thermodynamic properties of (2,4,6-trimethylbenzoyl) diphenylphosphine oxide in pure and binary solvents

Sources

McGowan	Mathadi
wcGowan	wiethou:

NIST Webbook:

Crippen Method:

Crippen Method:

Solubility and mixing thermodynamic properties of (2,4,6-trimethylbenzoyl) diphenylphosphine oxide in pure and binary solvents:

Legend

http://link.springer.com/article/10.1007/BF02311772 http://webbook.nist.gov/cgi/cbook.cgi?ID=R508515&Units=SI http://pubs.acs.org/doi/abs/10.1021/ci990307I https://www.chemeo.com/doc/models/crippen_log10ws https://www.doi.org/10.1016/j.fluid.2018.01.015

log10ws:Log10 of Water solubility in mol/llogp:Octanol/Water partition coefficient

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

Latest version available from:

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

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