

# Lucirin TPO liquid (Ethyl-2, 4, 6 trimethylbenzoylphenyl phosphinate)

**Inchi:** InChI=1S/C18H21O3P/c1-5-21-22(20,16-9-7-6-8-10-16)18(19)17-14(3)11-13(2)12-15(17)  
**InchiKey:** ZMDDERVSCYEKPQ-UHFFFAOYSA-N  
**Formula:** C18H21O3P  
**SMILES:** CCOP(=O)(C(=O)c1c(C)cc(C)cc1C)c1cccc1  
**Mol. weight [g/mol]:** 316.33

## Physical Properties

Property code	Value	Unit	Source
log10ws	-10.84		Crippen Method
logp	4.392		Crippen Method
mcvol	250.730	ml/mol	McGowan Method
rinpola	2266.00		NIST Webbook

## Sources

**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>  
**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=R508500&Units=SI>  
**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci990307l>  
**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

## Legend

**log10ws:** Log10 of Water solubility in mol/l  
**logp:** Octanol/Water partition coefficient  
**mcvol:** McGowan's characteristic volume  
**rinpola:** Non-polar retention indices

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