Phosphorous acid, triphenyl ester

Other names:	Advance TPP
	Mellite 310
	P 36
	P 36 (Stabilizer)
	Phenyl phosphite
	Phosclere T 36
	Stabilizer P 36
	Triphenoxyphosphine
	Triphenyl phosphite
	TPP
	EFED
	Phenyl phosphite, (PhO)3P
	Trifenoxyfosfin
	Trifenylfosfit
	Doverphos 10
	Doverphos 10-HR
	Lankromark LE65
	Weston EGTPP
	Weston TPP
	ADK Stab TPP
	JP 360
	NSC 43789
	Phenyl phosphite ((C6H5O)3P)
	Sumilizer TPP-R
	Sumilizer TTP-R
	TP 1 (plasticizer)
	TPP (plasticizer)
	Tris(phenoxy)phosphine
Inchi:	InChI=1S/C18H15O3P/c1-4-10-16(11-5-1)19-22(20-17-12-6-2-7-13-17)21-18-14-8-3-9-15
InchiKey:	HVLLSGMXQDNUAL-UHFFFAOYSA-N
Formula:	C18H15O3P
SMILES:	c1ccc(OP(Oc2ccccc2)Oc2ccccc2)cc1
Mol. weight [g/mol]:	310.28
CAS:	101-02-0

Physical Properties

Property code	Value	Unit	Source

ie	8.60	eV	NIST Webbook
ie	8.80	eV	NIST Webbook
log10ws	-2.70		Crippen Method
logp	5.450		Crippen Method
mcvol	231.270	ml/mol	McGowan Method
tf	295.15 ± 2.00	K	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C101020&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tf:	Normal melting (fusion) point