Tris(2,4-di-tert-butylphenyl) phosphite

Other names: Alkanox 240
Hostanox PAR 24
Lowinox 242
Naugard 524
Tris-(2,4-di-t-butylphenyl) phosphite
Tris(2,4-di-tert-butylphenyl) phosphite
Trisdibutylphenyl phosphite
Irgafos 168

Inchi: InChI=1S/C42H63O3P/c1-37(2,3)28-19-22-34(31(25-28)40(10,11)12)43-46(44-35-23-20-

InchiKey: JKIJEFPNVSHHEI-UHFFFAOYSA-N

Formula: C42H63O3P

SMILES: CC(C)(C)c1ccc(OP(Oc2ccc(C(C)(C)C)cc2C(C)(C)C)Oc2ccc(C(C)(C)C)cc2C(C)(C)C)c(C(

Mol. weight [g/mol]: 646.94

Physical Properties

Property code	Value	Unit	Source
hf	-667.09	kJ/mol	Cheméo Relay (1.0)
hvap	131.84	kJ/mol	Cheméo Relay (1.0)
logp	13.235		Crippen Method
mcvol	569.430	ml/mol	McGowan Method
rinpol	3396.70		NIST Webbook
rinpol	3396.70		NIST Webbook
tb	752.42	K	Cheméo Relay (1.0)
tf	394.60	K	Cheméo Relay (1.0)

Sources

Cheméo Relay (1.0, beta):

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C31570044&Units=SI

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

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Cheméo Relay (1.0):

Legend

hf:	Enthalpy of formation at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point