(R,R)-DIOP

Other names: (-)-DIOP
(-)-1,4-Bis(diphenylphosphino)-2,3-O-isopropylidene-2,3-butanediol
(R,R)-DIOP
(4R,5R)-4,5-Bis(diphenylphosphinomethyl)-2,2-dimethyl-1,3-dioxolane
Phosphine, [(2,2-dimethyl-1,3-dioxolane-4,5-diyl)bis(methylene)]bis[diphenyl-,
(4R-trans)-
Phosphine, [(2,2-dimethyl-1,3-dioxolane-4,5-diyl)dimethylene]bis[diphenyl-,
trans-(-)-
(-)-2,2-dimethyl-4,5-((diphenylphosphino)dimethyl)dioxolane
(-) 2,3-O-isopropylidene-2,3-dihydroxy-1,4-bis(diphenylphosphino)butane
Inchi: InChI=1S/C31H32O2P2/c1-31(2)32-29(23-34(25-15-7-3-8-16-25)26-17-9-4-10-18-26)30(
InchiKey: VCHDBLPQYJAQSQ-UHFFFAOYSA-N
Formula: C31H32O2P2
SMILES: CC1(C)OC(CP(c2ccccc2)c2ccccc2)C(CP(c2ccccc2)c2ccccc2)O1
Mol. weight [g/mol]: 498.54

Physical Properties

Property code	Value	Unit	Source
logp	5.772		Crippen Method
mcvol	394.410	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	38.61	kJ/mol	229.00	NIST Webbook

Sources

Cheméo Relay (1.0, beta):
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C32305989&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

Legend

hfust:	Enthalpy of fusion at a given temperature
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume