Dichlorphen, O,O'-dibenzoyl-

Inchi: InChI=1S/C27H18Cl2O4/c28-22-11-13-24(32-26(30)18-7-3-1-4-8-18)20(16-22)15-21-17-
InchiKey: QFVWZPUVNKTBQA-UHFFFAOYSA-N
Formula: C27H18Cl2O4
SMILES: O=C(Oc1ccc(Cl)cc1Cc1cc(Cl)ccc1OC(=O)c1ccccc1)c1ccccc1
Mol. weight [g/mol]: 477.33

Physical Properties

Property code	Value	Unit	Source
gf	95.88	kJ/mol	Joback Method
hf	-221.45	kJ/mol	Joback Method
hfus	54.26	kJ/mol	Joback Method
hvap	114.53	kJ/mol	Joback Method
log10ws	-9.12		Crippen Method
logp	7.023		Crippen Method
mcvol	335.610	ml/mol	McGowan Method
pc	1564.75	kPa	Joback Method
rinpol	2584.00		NIST Webbook
tb	1171.24	K	Joback Method
tc	1447.46	K	Joback Method
tf	753.97	K	Joback Method
vc	1.262	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	994.15	J/mol×K	1171.24	Joback Method
cpg	1010.17	J/mol×K	1401.43	Joback Method
cpg	1009.39	J/mol×K	1355.39	Joback Method
cpg	1007.52	J/mol×K	1309.35	Joback Method
cpg	1004.44	J/mol×K	1263.31	Joback Method
cpg	1000.02	J/mol×K	1217.28	Joback Method
cpg	1009.97	J/mol×K	1447.46	Joback Method
dvisc	0.0000172	Pa×s	1171.24	Joback Method
dvisc	0.0000211	Pa×s	1101.70	Joback Method

dvisc	0.0000268	Pa×s	1032.15	Joback Method
dvisc	0.0000351	Pa×s	962.61	Joback Method
dvisc	0.0000479	Pa×s	893.06	Joback Method
dvisc	0.0000690	Pa×s	823.52	Joback Method
dvisc	0.0001064	Pa×s	753.97	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U360689&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume