Dichlorphen, O,O'-dimethacryloyl-

Inchi: InChI=1S/C21H18Cl2O4/c1-12(2)20(24)26-18-7-5-16(22)10-14(18)9-15-11-17(23)6-8-19
InchiKey: NWSQOAONRANLNH-UHFFFAOYSA-N
Formula: C21H18Cl2O4
SMILES: C=C(C)C(=O)Oc1ccc(Cl)cc1Cc1cc(Cl)ccc1OC(=O)C(=C)C
Mol. weight [g/mol]: 405.27

Physical Properties

Property code	Value	Unit	Source
gf	-20.88	kJ/mol	Joback Method
hf	-339.39	kJ/mol	Joback Method
hfus	45.46	kJ/mol	Joback Method
hvap	95.44	kJ/mol	Joback Method
log10ws	-6.95		Crippen Method
logp	5.547		Crippen Method
mcvol	289.990	ml/mol	McGowan Method
pc	1574.70	kPa	Joback Method
rinpol	2655.00		NIST Webbook
rinpol	2655.00		NIST Webbook
tb	973.72	K	Joback Method
tc	1214.90	K	Joback Method
tf	602.07	K	Joback Method
vc	1.105	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	820.41	J/mol×K	973.72	Joback Method
cpg	831.10	J/mol×K	1013.92	Joback Method
cpg	840.56	J/mol×K	1054.11	Joback Method
cpg	848.82	J/mol×K	1094.31	Joback Method
cpg	855.94	J/mol×K	1134.51	Joback Method
cpg	861.96	J/mol×K	1174.71	Joback Method
cpg	866.93	J/mol×K	1214.90	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
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=U360696&Units=SI

Legend

cpg:	Ideal gas heat capacity
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