

Dichlorophen, O,O'-di(cyclohexanecarbonyl)-

Inchi:	InChI=1S/C27H30Cl2O4/c28-22-11-13-24(32-26(30)18-7-3-1-4-8-18)20(16-22)15-21-17-
InchiKey:	WVXRRQFYHHDBJY-UHFFFAOYSA-N
Formula:	C27H30Cl2O4
SMILES:	O=C(Oc1ccc(Cl)cc1Cc1cc(Cl)ccc1OC(=O)C1CCCCC1)C1CCCCC1
Mol. weight [g/mol]:	489.43

Physical Properties

Property code	Value	Unit	Source
gf	-80.04	kJ/mol	Joback Method
hf	-585.87	kJ/mol	Joback Method
hfus	49.85	kJ/mol	Joback Method
hvap	110.84	kJ/mol	Joback Method
log10ws	-9.06		Crippen Method
logp	7.556		Crippen Method
mcvol	361.410	ml/mol	McGowan Method
pc	1293.93	kPa	Joback Method
rinsol	3571.00		NIST Webbook
rinsol	3571.00		NIST Webbook
tb	1156.98	K	Joback Method
tc	1425.92	K	Joback Method
tf	715.89	K	Joback Method
vc	1.343	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1211.15	J/molxK	1156.98	Joback Method
cpg	1218.89	J/molxK	1201.80	Joback Method
cpg	1224.35	J/molxK	1246.63	Joback Method
cpg	1227.63	J/molxK	1291.45	Joback Method
cpg	1228.81	J/molxK	1336.28	Joback Method
cpg	1228.00	J/molxK	1381.10	Joback Method
cpg	1225.29	J/molxK	1425.92	Joback Method
dvisc	0.0001393	Paxs	715.89	Joback Method

dvisc	0.0000823	Paxs	789.40	Joback Method
dvisc	0.0000532	Paxs	862.92	Joback Method
dvisc	0.0000368	Paxs	936.43	Joback Method
dvisc	0.0000269	Paxs	1009.95	Joback Method
dvisc	0.0000205	Paxs	1083.46	Joback Method
dvisc	0.0000162	Paxs	1156.98	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=U354657&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

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