

1,2-Bis(2,4-dichlorophenoxy)ethane

Inchi:	InChI=1S/C14H10Cl4O2/c15-9-1-3-13(11(17)7-9)19-5-6-20-14-4-2-10(16)8-12(14)18/h1-
InchiKey:	UWGCTYZENHHSID-UHFFFAOYSA-N
Formula:	C14H10Cl4O2
SMILES:	Clc1ccc(OCCOc2ccc(Cl)cc2Cl)c(Cl)c1
Mol. weight [g/mol]:	352.04
CAS:	6339-70-4

Physical Properties

Property code	Value	Unit	Source
gf	-4.42	kJ/mol	Joback Method
hf	-232.51	kJ/mol	Joback Method
hfus	37.71	kJ/mol	Joback Method
hvap	76.32	kJ/mol	Joback Method
log10ws	-6.10		Crippen Method
logp	5.758		Crippen Method
mcvol	221.300	ml/mol	McGowan Method
pc	2179.52	kPa	Joback Method
tb	787.56	K	Joback Method
tc	1033.54	K	Joback Method
tf	514.60	K	Joback Method
vc	0.836	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	516.02	J/molxK	787.56	Joback Method
cpg	561.30	J/molxK	992.54	Joback Method
cpg	554.27	J/molxK	951.55	Joback Method
cpg	546.24	J/molxK	910.55	Joback Method
cpg	537.19	J/molxK	869.55	Joback Method
cpg	527.13	J/molxK	828.56	Joback Method
cpg	567.35	J/molxK	1033.54	Joback Method
dvisc	0.0000802	Paxs	787.56	Joback Method
dvisc	0.0000968	Paxs	742.07	Joback Method

dvisc	0.0001197	Paxs	696.57	Joback Method
dvisc	0.0001526	Paxs	651.08	Joback Method
dvisc	0.0002018	Paxs	605.59	Joback Method
dvisc	0.0002792	Paxs	560.09	Joback Method
dvisc	0.0004090	Paxs	514.60	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C6339704&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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