

Sebacic acid, 2-(2-chlorophenoxy)ethyl isobutyl ester

Inchi:	InChI=1S/C22H33ClO5/c1-18(2)17-28-22(25)14-8-6-4-3-5-7-13-21(24)27-16-15-26-20-12
InchiKey:	ONYCQUXOFUKVRV-UHFFFAOYSA-N
Formula:	C22H33ClO5
SMILES:	CC(C)COC(=O)CCCCCCCC(=O)OCCOc1ccccc1Cl
Mol. weight [g/mol]:	412.95

Physical Properties

Property code	Value	Unit	Source
gf	-350.07	kJ/mol	Joback Method
hf	-915.19	kJ/mol	Joback Method
hfus	53.82	kJ/mol	Joback Method
hvap	92.22	kJ/mol	Joback Method
log10ws	-6.04		Crippen Method
logp	5.582		Crippen Method
mvol	330.070	ml/mol	McGowan Method
pc	1135.20	kPa	Joback Method
rinpol	2823.00		NIST Webbook
rinpol	2823.00		NIST Webbook
tb	946.41	K	Joback Method
tc	1160.10	K	Joback Method
tf	558.11	K	Joback Method
vc	1.268	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1053.48	J/molxK	946.41	Joback Method
cpg	1068.22	J/molxK	982.02	Joback Method
cpg	1081.53	J/molxK	1017.64	Joback Method
cpg	1093.43	J/molxK	1053.25	Joback Method
cpg	1103.94	J/molxK	1088.87	Joback Method
cpg	1113.09	J/molxK	1124.48	Joback Method
cpg	1120.90	J/molxK	1160.10	Joback Method
dvisc	0.0002959	Paxs	558.11	Joback Method

dvisc	0.0001562	Paxs	622.83	Joback Method
dvisc	0.0000930	Paxs	687.54	Joback Method
dvisc	0.0000605	Paxs	752.26	Joback Method
dvisc	0.0000422	Paxs	816.98	Joback Method
dvisc	0.0000310	Paxs	881.69	Joback Method
dvisc	0.0000237	Paxs	946.41	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U416772&Units=SI

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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