Succinic acid, phenethyl 2-chloroethyl ester

Inchi: InChI=1S/C14H17ClO4/c15-9-11-19-14(17)7-6-13(16)18-10-8-12-4-2-1-3-5-12/h1-5H,6-1
InchiKey: XDCGMUHMVGHHNY-UHFFFAOYSA-N
Formula: C14H17ClO4
SMILES: O=C(CCC(=O)OCCc1ccccc1)OCCCl
Mol. weight [g/mol]: 284.74

Physical Properties

Property code	Value	Unit	Source
gf	-300.36	kJ/mol	Joback Method
hf	-601.10	kJ/mol	Joback Method
hfus	35.83	kJ/mol	Joback Method
hvap	71.73	kJ/mol	Joback Method
log10ws	-2.66		Crippen Method
logp	2.334		Crippen Method
mcvol	211.480	ml/mol	McGowan Method
pc	2111.94	kPa	Joback Method
rinpol	2155.00		NIST Webbook
rinpol	2155.00		NIST Webbook
tb	736.41	K	Joback Method
tc	944.98	K	Joback Method
tf	448.20	K	Joback Method
vc	0.808	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	567.10	J/mol×K	736.41	Joback Method
cpg	580.53	J/mol×K	771.17	Joback Method
cpg	593.03	J/mol×K	805.93	Joback Method
cpg	604.61	J/mol×K	840.69	Joback Method
cpg	615.29	J/mol×K	875.46	Joback Method
cpg	625.08	J/mol×K	910.22	Joback Method
cpg	634.00	J/mol×K	944.98	Joback Method
dvisc	0.0010134	Pa×s	448.20	Joback Method

dvisc	0.0005818	Pa×s	496.24	Joback Method
dvisc	0.0003683	Pa×s	544.27	Joback Method
dvisc	0.0002511	Pa×s	592.31	Joback Method
dvisc	0.0001814	Pa×s	640.34	Joback Method
dvisc	0.0001371	Pa×s	688.38	Joback Method
dvisc	0.0001074	Pa×s	736.41	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=U358001&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