Succinic acid, butyl 2-chloropropyl ester

Inchi: InChI=1S/C11H19ClO4/c1-3-4-7-15-10(13)5-6-11(14)16-8-9(2)12/h9H,3-8H2,1-2H3
InchiKey: TUQSZQVARNKNCQ-UHFFFAOYSA-N
Formula: C11H19ClO4
SMILES: CCCCOC(=O)CCC(=O)OCC(C)Cl
Mol. weight [g/mol]: 250.72

Physical Properties

Property code	Value	Unit	Source
gf	-440.47	kJ/mol	Joback Method
hf	-780.99	kJ/mol	Joback Method
hfus	30.49	kJ/mol	Joback Method
hvap	62.39	kJ/mol	Joback Method
log10ws	-2.42		Crippen Method
logp	2.280		Crippen Method
mcvol	192.970	ml/mol	McGowan Method
pc	2045.61	kPa	Joback Method
rinpol	1644.00		NIST Webbook
rinpol	1644.00		NIST Webbook
tb	640.65	K	Joback Method
tc	826.62	K	Joback Method
tf	372.97	K	Joback Method
vc	0.743	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	494.12	J/mol×K	640.65	Joback Method
cpg	555.08	J/mol×K	795.62	Joback Method
cpg	544.18	J/mol×K	764.63	Joback Method
cpg	532.64	J/mol×K	733.63	Joback Method
cpg	520.45	J/mol×K	702.64	Joback Method
cpg	507.61	J/mol×K	671.64	Joback Method
cpg	565.32	J/mol×K	826.62	Joback Method
dvisc	0.0001461	Pa×s	640.65	Joback Method

dvisc	0.0001910	Pa×s	596.04	Joback Method
dvisc	0.0002607	Pa×s	551.42	Joback Method
dvisc	0.0003758	Pa×s	506.81	Joback Method
dvisc	0.0005815	Pa×s	462.20	Joback Method
dvisc	0.0009877	Pa×s	417.58	Joback Method
dvisc	0.0019043	Pa×s	372.97	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=U349371&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