Succinic acid, 2,2-dichloroethyl but-3-en-1-yl ester

Inchi: InChI=1S/C10H14Cl2O4/c1-2-3-6-15-9(13)4-5-10(14)16-7-8(11)12/h2,8H,1,3-7H2
InchiKey: IQBLXQMETLHZDA-UHFFFAOYSA-N
Formula: C10H14Cl2O4
SMILES: C=CCCOC(=O)CCC(=O)OCC(Cl)Cl
Mol. weight [g/mol]: 269.12

Physical Properties

Property code	Value	Unit	Source
gf	-372.98	kJ/mol	Joback Method
hf	-650.66	kJ/mol	Joback Method
hfus	30.82	kJ/mol	Joback Method
hvap	63.88	kJ/mol	Joback Method
log10ws	-2.50		Crippen Method
logp	2.233		Crippen Method
mcvol	186.820	ml/mol	McGowan Method
pc	2246.13	kPa	Joback Method
rinpol	1690.00		NIST Webbook
rinpol	1690.00		NIST Webbook
tb	651.88	K	Joback Method
tc	846.81	K	Joback Method
tf	389.86	K	Joback Method
vc	0.717	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	448.06	J/mol×K	651.88	Joback Method
cpg	459.54	J/mol×K	684.37	Joback Method
cpg	470.38	J/mol×K	716.86	Joback Method
cpg	480.61	J/mol×K	749.35	Joback Method
cpg	490.21	J/mol×K	781.84	Joback Method
cpg	499.19	J/mol×K	814.32	Joback Method
cpg	507.56	J/mol×K	846.81	Joback Method
dvisc	0.0016845	Pa×s	389.86	Joback Method

dvisc	0.0009289	Pa×s	433.53	Joback Method
dvisc	0.0005711	Pa×s	477.20	Joback Method
dvisc	0.0003810	Pa×s	520.87	Joback Method
dvisc	0.0002706	Pa×s	564.54	Joback Method
dvisc	0.0002019	Pa×s	608.21	Joback Method
dvisc	0.0001566	Pa×s	651.88	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U391190&Units=SI
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

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