

Succinic acid, 2,2-dichloroethyl 2-methoxyethyl ester

Inchi:	InChI=1S/C9H14Cl2O5/c1-14-4-5-15-8(12)2-3-9(13)16-6-7(10)11/h7H,2-6H2,1H3
InchiKey:	FOKMUTWPOVCIHE-UHFFFAOYSA-N
Formula:	C9H14Cl2O5
SMILES:	COCCOC(=O)CCC(=O)OCC(Cl)Cl
Mol. weight [g/mol]:	273.11

Physical Properties

Property code	Value	Unit	Source
gf	-574.24	kJ/mol	Joback Method
hf	-887.67	kJ/mol	Joback Method
hfus	30.70	kJ/mol	Joback Method
hvap	64.73	kJ/mol	Joback Method
log10ws	-1.32		Crippen Method
logp	1.303		Crippen Method
mcvol	182.900	ml/mol	McGowan Method
pc	2327.03	kPa	Joback Method
rinpol	1727.00		NIST Webbook
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tb	654.74	K	Joback Method
tc	847.38	K	Joback Method
tf	402.58	K	Joback Method
vc	0.698	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	445.14	J/molxK	654.74	Joback Method
cpg	456.46	J/molxK	686.85	Joback Method
cpg	467.19	J/molxK	718.95	Joback Method
cpg	477.33	J/molxK	751.06	Joback Method
cpg	486.87	J/molxK	783.17	Joback Method
cpg	495.78	J/molxK	815.27	Joback Method
cpg	504.05	J/molxK	847.38	Joback Method
dvisc	0.0012927	Paxs	402.58	Joback Method

dvisc	0.0007363	Paxs	444.61	Joback Method
dvisc	0.0004622	Paxs	486.63	Joback Method
dvisc	0.0003125	Paxs	528.66	Joback Method
dvisc	0.0002238	Paxs	570.69	Joback Method
dvisc	0.0001678	Paxs	612.71	Joback Method
dvisc	0.0001305	Paxs	654.74	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390737&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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

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