

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

Inchi:	InChI=1S/C10H14Cl2O4/c1-2-3-6-15-9(13)4-5-10(14)16-7-8(11)12/h2-3,8H,4-7H2,1H3/b
InchiKey:	URUDJZREOLUIKL-NSCUHMNNSA-N
Formula:	C10H14Cl2O4
SMILES:	CC=CCOC(=O)CCC(=O)OCC(Cl)Cl
Mol. weight [g/mol]:	269.12

Physical Properties

Property code	Value	Unit	Source
gf	-380.60	kJ/mol	Joback Method
hf	-658.87	kJ/mol	Joback Method
hfus	32.30	kJ/mol	Joback Method
hvap	64.51	kJ/mol	Joback Method
log10ws	-2.50		Crippen Method
logp	2.233		Crippen Method
mvol	186.820	ml/mol	McGowan Method
pc	2267.57	kPa	Joback Method
rinpol	1732.00		NIST Webbook
rinpol	1732.00		NIST Webbook
tb	659.36	K	Joback Method
tc	858.09	K	Joback Method
tf	386.54	K	Joback Method
vc	0.716	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	448.08	J/molxK	659.36	Joback Method
cpg	459.59	J/molxK	692.48	Joback Method
cpg	470.44	J/molxK	725.60	Joback Method
cpg	480.66	J/molxK	758.72	Joback Method
cpg	490.25	J/molxK	791.85	Joback Method
cpg	499.22	J/molxK	824.97	Joback Method
cpg	507.59	J/molxK	858.09	Joback Method
dvisc	0.0015783	Paxs	386.54	Joback Method

dvisc	0.0008334	Paxs	432.01	Joback Method
dvisc	0.0004970	Paxs	477.48	Joback Method
dvisc	0.0003242	Paxs	522.95	Joback Method
dvisc	0.0002265	Paxs	568.42	Joback Method
dvisc	0.0001668	Paxs	613.89	Joback Method
dvisc	0.0001282	Paxs	659.36	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=U391220&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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