Adipic acid, di(2,2-dichloroethyl) ester

Inchi: InChI=1S/C10H14Cl4O4/c11-7(12)5-17-9(15)3-1-2-4-10(16)18-6-8(13)14/h7-8H,1-6H2
InchiKey: ZJYPQKZQJGCLAZ-UHFFFAOYSA-N
Formula: C10H14Cl4O4
SMILES: O=C(CCCCC(=O)OCC(Cl)Cl)OCC(Cl)Cl
Mol. weight [g/mol]: 340.03

Physical Properties

Property code	Value	Unit	Source
gf	-487.12	kJ/mol	Joback Method
hf	-812.85	kJ/mol	Joback Method
hfus	36.97	kJ/mol	Joback Method
hvap	72.93	kJ/mol	Joback Method
log10ws	-3.56		Crippen Method
logp	3.241		Crippen Method
mcvol	215.600	ml/mol	McGowan Method
pc	2032.72	kPa	Joback Method
rinpol	2086.00		NIST Webbook
rinpol	2086.00		NIST Webbook
tb	729.62	K	Joback Method
tc	932.19	K	Joback Method
tf	436.46	K	Joback Method
vc	0.828	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	519.19	J/mol×K	729.62	Joback Method
cpg	565.23	J/mol×K	898.43	Joback Method
cpg	557.44	J/mol×K	864.67	Joback Method
cpg	548.94	J/mol×K	830.91	Joback Method
cpg	539.74	J/mol×K	797.14	Joback Method
cpg	529.82	J/mol×K	763.38	Joback Method
cpg	572.31	J/mol×K	932.19	Joback Method
dvisc	0.0001060	Pa×s	729.62	Joback Method

dvisc	0.0001389	Pa×s	680.76	Joback Method
dvisc	0.0001898	Pa×s	631.90	Joback Method
dvisc	0.0002732	Pa×s	583.04	Joback Method
dvisc	0.0004206	Pa×s	534.18	Joback Method
dvisc	0.0007062	Pa×s	485.32	Joback Method
dvisc	0.0013316	Pa×s	436.46	Joback Method

Sources

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=U353593&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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