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

Inchi: InChI=1S/C9H12Cl4O4/c10-6(11)4-16-8(14)2-1-3-9(15)17-5-7(12)13/h6-7H,1-5H2
InchiKey: SLUOLGKPMXHICA-UHFFFAOYSA-N
Formula: C9H12Cl4O4
SMILES: O=C(CCCC(=O)OCC(Cl)Cl)OCC(Cl)Cl
Mol. weight [g/mol]: 326.00

Physical Properties

Property code	Value	Unit	Source
gf	-495.54	kJ/mol	Joback Method
hf	-792.21	kJ/mol	Joback Method
hfus	34.38	kJ/mol	Joback Method
hvap	70.70	kJ/mol	Joback Method
log10ws	-3.14		Crippen Method
logp	2.850		Crippen Method
mcvol	201.510	ml/mol	McGowan Method
pc	2220.80	kPa	Joback Method
rinpol	1932.00		NIST Webbook
rinpol	1932.00		NIST Webbook
tb	706.74	K	Joback Method
tc	911.51	K	Joback Method
tf	425.19	K	Joback Method
vc	0.771	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	468.32	J/mol×K	706.74	Joback Method
cpg	478.36	J/mol×K	740.87	Joback Method
cpg	487.73	J/mol×K	775.00	Joback Method
cpg	496.44	J/mol×K	809.12	Joback Method
cpg	504.48	J/mol×K	843.25	Joback Method
cpg	511.85	J/mol×K	877.38	Joback Method
cpg	518.55	J/mol×K	911.51	Joback Method
dvisc	0.0014752	Pa×s	425.19	Joback Method

dvisc	0.0007930	Pa×s	472.12	Joback Method
dvisc	0.0004769	Pa×s	519.04	Joback Method
dvisc	0.0003120	Pa×s	565.97	Joback Method
dvisc	0.0002179	Pa×s	612.89	Joback Method
dvisc	0.0001601	Pa×s	659.82	Joback Method
dvisc	0.0001226	Pa×s	706.74	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=U393539&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