Ethyl 1,1-difluoro-2,2-dichloroethyl ether

Inchi: InChI=1S/C4H6Cl2F2O/c1-2-9-4(7,8)3(5)6/h3H,2H2,1H3
InchiKey: RVZBQBQBQKUNLU-UHFFFAOYSA-N
Formula: C4H6Cl2F2O
SMILES: CCOC(F)(F)C(Cl)Cl
Mol. weight [g/mol]: 178.99

Physical Properties

Property code	Value	Unit	Source
gf	-535.28	kJ/mol	Joback Method
hf	-695.84	kJ/mol	Joback Method
hfus	10.92	kJ/mol	Joback Method
hvap	32.36	kJ/mol	Joback Method
log10ws	-2.31		Crippen Method
logp	2.419		Crippen Method
mcvol	101.110	ml/mol	McGowan Method
pc	3243.03	kPa	Joback Method
rinpol	769.00		NIST Webbook
rinpol	769.00		NIST Webbook
rinpol	769.00		NIST Webbook
tb	383.07	K	Joback Method
tc	561.23	K	Joback Method
tf	205.51	K	Joback Method
vc	0.395	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	180.07	J/mol×K	383.07	Joback Method
cpg	187.94	J/mol×K	412.76	Joback Method
cpg	195.39	J/mol×K	442.46	Joback Method
cpg	202.46	J/mol×K	472.15	Joback Method
cpg	209.15	J/mol×K	501.84	Joback Method
cpg	215.47	J/mol×K	531.53	Joback Method
cpg	221.44	J/mol×K	561.23	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R130300&Units=SI

Legend

cpg:	Ideal gas heat capacity
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