Propane, 1-(2-chloroethyl)-3-ethenyl

Inchi: InChI=1S/C7H13ClO2/c1-2-9-5-3-6-10-7-4-8/h2H,1,3-7H2
InchiKey: UVWCZJPMXMNGDG-UHFFFAOYSA-N
Formula: C7H13ClO2
SMILES: C=COCCCOCCCl
Mol. weight [g/mol]: 164.63

Physical Properties

Property code	Value	Unit	Source
gf	-126.03	kJ/mol	Joback Method
hf	-342.56	kJ/mol	Joback Method
hfus	19.18	kJ/mol	Joback Method
hvap	39.71	kJ/mol	Joback Method
log10ws	-1.43		Crippen Method
logp	1.792		Crippen Method
mcvol	129.170	ml/mol	McGowan Method
pc	2715.50	kPa	Joback Method
rinpol	1648.00		NIST Webbook
tb	438.51	K	Joback Method
tc	613.65	K	Joback Method
tf	241.27	K	Joback Method
vc	0.493	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	254.26	J/mol×K	438.51	Joback Method
cpg	264.79	J/mol×K	467.70	Joback Method
cpg	274.99	J/mol×K	496.89	Joback Method
cpg	284.86	J/mol×K	526.08	Joback Method
cpg	294.40	J/mol×K	555.27	Joback Method
cpg	303.60	J/mol×K	584.46	Joback Method
cpg	312.46	J/mol×K	613.65	Joback Method
dvisc	0.0025045	Pa×s	241.27	Joback Method
dvisc	0.0012997	Pa×s	274.14	Joback Method

dvisc	0.0007761	Pa×s	307.02	Joback Method
dvisc	0.0005121	Pa×s	339.89	Joback Method
dvisc	0.0003636	Pa×s	372.76	Joback Method
dvisc	0.0002729	Pa×s	405.64	Joback Method
dvisc	0.0002138	Pa×s	438.51	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R502359&Units=SI
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

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