3-chloro-2-propoxy-tetrahydro-pyran

Inchi: InChI=1S/C8H15ClO2/c1-2-5-10-8-7(9)4-3-6-11-8/h7-8H,2-6H2,1H3
InchiKey: GYEIUXQWSBQIFW-UHFFFAOYSA-N
Formula: C8H15ClO2
SMILES: CCCOC1OCCCC1Cl
Mol. weight [g/mol]: 178.66

Physical Properties

Property code	Value	Unit	Source
gf	-169.83	kJ/mol	Joback Method
hf	-454.43	kJ/mol	Joback Method
hfus	22.75	kJ/mol	Joback Method
hvap	44.83	kJ/mol	Joback Method
log10ws	-2.11		Crippen Method
logp	2.157		Crippen Method
mcvol	136.700	ml/mol	McGowan Method
pc	2838.39	kPa	Joback Method
rinpol	1080.00		NIST Webbook
rinpol	1080.00		NIST Webbook
tb	484.12	K	Joback Method
tc	689.81	K	Joback Method
tf	261.78	K	Joback Method
vc	0.503	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	302.28	J/mol×K	484.12	Joback Method
cpg	376.29	J/mol×K	655.53	Joback Method
cpg	362.96	J/mol×K	621.25	Joback Method
cpg	348.89	J/mol×K	586.96	Joback Method
cpg	334.09	J/mol×K	552.68	Joback Method
cpg	318.56	J/mol×K	518.40	Joback Method
cpg	388.89	J/mol×K	689.81	Joback Method
dvisc	0.0002854	Pa×s	484.12	Joback Method

dvisc	0.0003665	Pa×s	447.06	Joback Method
dvisc	0.0004924	Pa×s	410.01	Joback Method
dvisc	0.0007015	Pa×s	372.95	Joback Method
dvisc	0.0010807	Pa×s	335.89	Joback Method
dvisc	0.0018530	Pa×s	298.84	Joback Method
dvisc	0.0037012	Pa×s	261.78	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R132955&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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