

2H-Pyran, tetrahydro, 3-chloro-2-propoxy, # 2

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
mvol	136.700	ml/mol	McGowan Method
pc	2838.39	kPa	Joback Method
rinpol	1200.00		NIST Webbook
rinpol	1200.00		NIST Webbook
tb	484.12	K	Joback Method
tc	689.81	K	Joback Method
tf	261.78	K	Joback Method
vc	0.503	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	302.28	J/molxK	484.12	Joback Method
cpg	318.56	J/molxK	518.40	Joback Method
cpg	334.09	J/molxK	552.68	Joback Method
cpg	348.89	J/molxK	586.96	Joback Method
cpg	362.96	J/molxK	621.25	Joback Method
cpg	376.29	J/molxK	655.53	Joback Method
cpg	388.89	J/molxK	689.81	Joback Method
dvisc	0.0037012	Paxs	261.78	Joback Method

dvisc	0.0018530	Paxs	298.84	Joback Method
dvisc	0.0010807	Paxs	335.89	Joback Method
dvisc	0.0007015	Paxs	372.95	Joback Method
dvisc	0.0004924	Paxs	410.01	Joback Method
dvisc	0.0003665	Paxs	447.06	Joback Method
dvisc	0.0002854	Paxs	484.12	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R91020&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.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

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