2-Allyloxy-tetrahydro-furan

Other names: Tetrahydrofuran, 2-(2-propenyloxy)
Inchi: InChI=1S/C7H12O2/c1-2-5-8-7-4-3-6-9-7/h2,7H,1,3-6H2
InchiKey: AZHZKKLTFVPMMB-UHFFFAOYSA-N
Formula: C7H12O2
SMILES: C=CCOC1CCCO1
Mol. weight [g/mol]: 128.17

Physical Properties

Property code	Value	Unit	Source
gf	-58.67	kJ/mol	Joback Method
hf	-266.12	kJ/mol	Joback Method
hfus	15.71	kJ/mol	Joback Method
hvap	37.68	kJ/mol	Joback Method
log10ws	-1.28		Crippen Method
logp	1.325		Crippen Method
mcvol	106.070	ml/mol	McGowan Method
pc	3484.76	kPa	Joback Method
rinpol	915.00		NIST Webbook
rinpol	915.00		NIST Webbook
rinpol	915.00		NIST Webbook
tb	420.89	K	Joback Method
tc	619.45	K	Joback Method
tf	226.59	K	Joback Method
vc	0.389	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	213.65	J/mol×K	420.89	Joback Method
cpg	227.47	J/mol×K	453.98	Joback Method
cpg	240.64	J/mol×K	487.08	Joback Method
cpg	253.18	J/mol×K	520.17	Joback Method
cpg	265.11	J/mol×K	553.26	Joback Method
cpg	276.43	J/mol×K	586.35	Joback Method

cpg	287.18	J/mol×K	619.45	Joback Method
dvisc	0.0034394	Pa×s	226.59	Joback Method
dvisc	0.0018090	Pa×s	258.97	Joback Method
dvisc	0.0010976	Pa×s	291.36	Joback Method
dvisc	0.0007359	Pa×s	323.74	Joback Method
dvisc	0.0005307	Pa×s	356.12	Joback Method
dvisc	0.0004041	Pa×s	388.51	Joback Method
dvisc	0.0003209	Pa×s	420.89	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=R91119&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

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