

3-Ethyl-tetrahydropyran

Inchi:	InChI=1S/C7H14O/c1-2-7-4-3-5-8-6-7/h7H,2-6H2,1H3
InchiKey:	JPIKTTQEANJSEG-UHFFFAOYSA-N
Formula:	C7H14O
SMILES:	CCC1CCCOC1
Mol. weight [g/mol]:	114.19

Physical Properties

Property code	Value	Unit	Source
gf	-53.61	kJ/mol	Joback Method
hf	-265.49	kJ/mol	Joback Method
hfus	13.70	kJ/mol	Joback Method
hvap	36.12	kJ/mol	Joback Method
log10ws	-1.49		Crippen Method
logp	1.823		Crippen Method
mcvol	104.500	ml/mol	McGowan Method
pc	3484.76	kPa	Joback Method
rinpol	906.00		NIST Webbook
tb	406.06	K	Joback Method
tc	609.11	K	Joback Method
tf	202.60	K	Joback Method
vc	0.382	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	203.14	J/molxK	406.06	Joback Method
cpg	275.05	J/molxK	575.26	Joback Method
cpg	262.10	J/molxK	541.42	Joback Method
cpg	248.46	J/molxK	507.58	Joback Method
cpg	234.09	J/molxK	473.74	Joback Method
cpg	218.99	J/molxK	439.90	Joback Method
cpg	287.32	J/molxK	609.11	Joback Method
dvisc	0.0003276	Paxs	406.06	Joback Method
dvisc	0.0004406	Paxs	372.15	Joback Method

dvisc	0.0006289	Paxs	338.24	Joback Method
dvisc	0.0009717	Paxs	304.33	Joback Method
dvisc	0.0016745	Paxs	270.42	Joback Method
dvisc	0.0033727	Paxs	236.51	Joback Method
dvisc	0.0085879	Paxs	202.60	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=R405906&Units=SI

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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