

3-Ethyl-tetrahydrofuran

Other names:	Furan, 3-ethyltetrahydro
Inchi:	InChI=1S/C6H12O/c1-2-6-3-4-7-5-6/h6H,2-5H2,1H3
InchiKey:	AIUUA KHKOQFCKF-UHFFFAOYSA-N
Formula:	C6H12O
SMILES:	CCC1CCOC1
Mol. weight [g/mol]:	100.16

Physical Properties

Property code	Value	Unit	Source
gf	-49.93	kJ/mol	Joback Method
hf	-238.69	kJ/mol	Joback Method
hfus	13.21	kJ/mol	Joback Method
hvap	33.72	kJ/mol	Joback Method
log10ws	-1.07		Crippen Method
logp	1.433		Crippen Method
mcvol	90.410	ml/mol	McGowan Method
pc	3796.32	kPa	Joback Method
rinpol	788.00		NIST Webbook
rinpol	788.00		NIST Webbook
tb	378.91	K	Joback Method
tc	575.15	K	Joback Method
tf	194.85	K	Joback Method
vc	0.334	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	165.67	J/mol×K	378.91	Joback Method
cpg	227.44	J/mol×K	542.44	Joback Method
cpg	216.31	J/mol×K	509.74	Joback Method
cpg	204.59	J/mol×K	477.03	Joback Method
cpg	192.25	J/mol×K	444.32	Joback Method
cpg	179.29	J/mol×K	411.62	Joback Method
cpg	237.99	J/mol×K	575.15	Joback Method

dvisc	0.0003579	Paxs	378.91	Joback Method
dvisc	0.0004529	Paxs	348.23	Joback Method
dvisc	0.0005999	Paxs	317.56	Joback Method
dvisc	0.0008439	Paxs	286.88	Joback Method
dvisc	0.0012880	Paxs	256.20	Joback Method
dvisc	0.0022056	Paxs	225.53	Joback Method
dvisc	0.0044740	Paxs	194.85	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R405897&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
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

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