Tetrahydrofuran, 2-hexyl-

Other names: 2-Hexyltetrahydrofuran
Inchi: InChI=1S/C10H20O/c1-2-3-4-5-7-10-8-6-9-11-10/h10H,2-9H2,1H3
InchiKey: PFCMQIWQXUAYPK-UHFFFAOYSA-N
Formula: C10H20O
SMILES: CCCCCCC1CCCO1
Mol. weight [g/mol]: 156.27
CAS: 3208-32-0

Physical Properties

Property code	Value	Unit	Source
gf	-16.25	kJ/mol	Joback Method
hf	-321.25	kJ/mol	Joback Method
hfus	23.57	kJ/mol	Joback Method
hvap	42.62	kJ/mol	Joback Method
log10ws	-3.10		Crippen Method
logp	3.136		Crippen Method
mcvol	146.770	ml/mol	McGowan Method
pc	2482.59	kPa	Joback Method
rinpol	1075.00		NIST Webbook
tb	470.43	K	Joback Method
tc	659.62	K	Joback Method
tf	239.93	K	Joback Method
vc	0.557	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	334.07	J/mol×K	470.43	Joback Method
cpg	351.88	J/mol×K	501.96	Joback Method
cpg	368.84	J/mol×K	533.49	Joback Method
cpg	384.98	J/mol×K	565.02	Joback Method
cpg	400.32	J/mol×K	596.55	Joback Method
cpg	414.90	J/mol×K	628.09	Joback Method
cpg	428.74	J/mol×K	659.62	Joback Method

dvisc	0.0056968	Pa×s	239.93	Joback Method
dvisc	0.0025611	Pa×s	278.35	Joback Method
dvisc	0.0013978	Pa×s	316.76	Joback Method
dvisc	0.0008696	Pa×s	355.18	Joback Method
dvisc	0.0005936	Pa×s	393.60	Joback Method
dvisc	0.0004336	Pa×s	432.01	Joback Method
dvisc	0.0003334	Pa×s	470.43	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C3208320&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