

2-tert-Butoxytetrahydrofuran

Other names:	Furan, 2-(1,1-dimethylethoxy)tetrahydro-
Inchi:	InChI=1S/C8H16O2/c1-2-3-6-9-8-5-4-7-10-8/h8H,2-7H2,1H3
InchiKey:	MATDIXOGHXOZDW-UHFFFAOYSA-N
Formula:	C8H16O2
SMILES:	CCCCOC1CCCO1
Mol. weight [g/mol]:	144.21
CAS:	1927-59-9

Physical Properties

Property code	Value	Unit	Source
gf	-138.09	kJ/mol	Joback Method
hf	-412.19	kJ/mol	Joback Method
hfus	19.58	kJ/mol	Joback Method
hvap	40.58	kJ/mol	Joback Method
log10ws	-1.85		Crippen Method
logp	1.940		Crippen Method
mcvol	124.460	ml/mol	McGowan Method
pc	2979.54	kPa	Joback Method
tb	447.09	K	Joback Method
tc	639.41	K	Joback Method
tf	239.62	K	Joback Method
vc	0.464	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	271.36	J/mol×K	447.09	Joback Method
cpg	286.89	J/mol×K	479.14	Joback Method
cpg	301.75	J/mol×K	511.20	Joback Method
cpg	315.95	J/mol×K	543.25	Joback Method
cpg	329.50	J/mol×K	575.30	Joback Method
cpg	342.41	J/mol×K	607.35	Joback Method
cpg	354.69	J/mol×K	639.41	Joback Method
dvisc	0.0040662	Pa×s	239.62	Joback Method

dvisc	0.0020262	Pa×s	274.20	Joback Method
dvisc	0.0011801	Pa×s	308.78	Joback Method
dvisc	0.0007664	Pa×s	343.36	Joback Method
dvisc	0.0005386	Pa×s	377.93	Joback Method
dvisc	0.0004016	Pa×s	412.51	Joback Method
dvisc	0.0003133	Pa×s	447.09	Joback Method

Sources

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=C1927599&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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