

# 1-tert-Butoxy-2-ethoxyethane

<b>Other names:</b>	Propane, 2-(2-ethoxyethoxy)-2-methyl-2-(2-ethoxyethoxy)-2-methylpropane
<b>Inchi:</b>	InChI=1S/C8H18O2/c1-5-9-6-7-10-8(2,3)4/h5-7H2,1-4H3
<b>InchiKey:</b>	NUNQKTCKURIZQX-UHFFFAOYSA-N
<b>Formula:</b>	C8H18O2
<b>SMILES:</b>	CCOCCOC(C)(C)C
<b>Mol. weight [g/mol]:</b>	146.23
<b>CAS:</b>	51422-54-9

## Physical Properties

Property code	Value	Unit	Source
gf	-190.68	kJ/mol	Joback Method
hf	-481.64	kJ/mol	Joback Method
hfus	11.44	kJ/mol	Joback Method
hvap	36.93	kJ/mol	Joback Method
log10ws	-1.46		Crippen Method
logp	1.838		Crippen Method
mcvol	135.320	ml/mol	McGowan Method
pc	2497.50	kPa	Joback Method
tb	421.20	K	NIST Webbook
tc	598.52	K	Joback Method
tf	226.80	K	Joback Method
vc	0.508	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	284.39	J/molxK	424.05	Joback Method
cpg	298.15	J/molxK	453.13	Joback Method
cpg	311.41	J/molxK	482.21	Joback Method
cpg	324.16	J/molxK	511.28	Joback Method
cpg	336.43	J/molxK	540.36	Joback Method
cpg	348.21	J/molxK	569.44	Joback Method
cpg	359.52	J/molxK	598.52	Joback Method

dvisc	0.0048563	Paxs	226.80	Joback Method
dvisc	0.0020461	Paxs	259.68	Joback Method
dvisc	0.0010469	Paxs	292.55	Joback Method
dvisc	0.0006133	Paxs	325.43	Joback Method
dvisc	0.0003964	Paxs	358.30	Joback Method
dvisc	0.0002756	Paxs	391.18	Joback Method
dvisc	0.0002028	Paxs	424.05	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C51422549&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C51422549&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvac:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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