

# Ether, tert-butyl propenyl, (E)-

Inchi:	InChI=1S/C7H14O/c1-5-6-8-7(2,3)4/h5-6H,1-4H3/b6-5+
InchiKey:	XGCRQUBGQPXCPL-AATRIKPKSA-N
Formula:	C7H14O
SMILES:	CC=COC(C)(C)C
Mol. weight [g/mol]:	114.19
CAS:	4188-72-1

## Physical Properties

Property code	Value	Unit	Source
gf	-13.88	kJ/mol	Joback Method
hf	-211.56	kJ/mol	Joback Method
hfus	7.86	kJ/mol	Joback Method
hvap	32.25	kJ/mol	Joback Method
log10ws	-2.30		Crippen Method
logp	2.335		Crippen Method
mcvol	111.060	ml/mol	McGowan Method
pc	2966.57	kPa	Joback Method
tb	382.91	K	Joback Method
tc	567.42	K	Joback Method
tf	188.22	K	Joback Method
vc	0.414	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	205.24	J/molxK	382.91	Joback Method
cpg	218.07	J/molxK	413.66	Joback Method
cpg	230.26	J/molxK	444.41	Joback Method
cpg	241.85	J/molxK	475.16	Joback Method
cpg	252.86	J/molxK	505.92	Joback Method
cpg	263.31	J/molxK	536.67	Joback Method
cpg	273.23	J/molxK	567.42	Joback Method
dvisc	0.0070724	Paxs	188.22	Joback Method
dvisc	0.0025447	Paxs	220.67	Joback Method

dvisc	0.0011899	Paxs	253.12	Joback Method
dvisc	0.0006613	Paxs	285.56	Joback Method
dvisc	0.0004144	Paxs	318.01	Joback Method
dvisc	0.0002831	Paxs	350.46	Joback Method
dvisc	0.0002063	Paxs	382.91	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C4188721&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4188721&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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.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>hvap:</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

Latest version available from:

<https://www.chemeo.com/cid/49-713-6/Ether-tert-butyl-propenyl-E.pdf>

Generated by Cheméo on 2024-04-17 02:34:17.410147227 +0000 UTC m=+15610506.330724543.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.