

# 7-Norbornadienyl t-butyl ether

<b>Other names:</b>	7-tert-Butoxynorbornadiene Bicyclo[2.2.1]hepta-2,5-diene, 7-(1,1-dimethylethoxy)- 7-Norbornadienyl t-butyl ether 7-tert-butoxybicyclo[2.2.1]hepta-2,5-diene
<b>Inchi:</b>	InChI=1S/C11H16O/c1-11(2,3)12-10-8-4-5-9(10)7-6-8/h4-10H,1-3H3
<b>InchiKey:</b>	PTTSCAGWOHYHDN-UHFFFAOYSA-N
<b>Formula:</b>	C11H16O
<b>SMILES:</b>	CC(C)(C)OC1C2C=CC1C=C2
<b>Mol. weight [g/mol]:</b>	164.24
<b>CAS:</b>	877-06-5

## Physical Properties

Property code	Value	Unit	Source
gf	101.19	kJ/mol	Joback Method
hf	-176.68	kJ/mol	Joback Method
hfus	15.71	kJ/mol	Joback Method
hvap	41.47	kJ/mol	Joback Method
log10ws	-2.75		Crippen Method
logp	2.542		Crippen Method
mcvol	141.400	ml/mol	McGowan Method
pc	2635.25	kPa	Joback Method
tb	481.67	K	Joback Method
tc	691.87	K	Joback Method
tf	268.02	K	Joback Method
vc	0.535	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	331.06	J/molxK	481.67	Joback Method
cpg	349.69	J/molxK	516.70	Joback Method
cpg	367.08	J/molxK	551.74	Joback Method
cpg	383.30	J/molxK	586.77	Joback Method
cpg	398.43	J/molxK	621.80	Joback Method

cpg	412.53	J/molxK	656.83	Joback Method
cpg	425.69	J/molxK	691.87	Joback Method
dvisc	0.0012214	Paxs	268.02	Joback Method
dvisc	0.0010025	Paxs	303.63	Joback Method
dvisc	0.0008577	Paxs	339.24	Joback Method
dvisc	0.0007559	Paxs	374.85	Joback Method
dvisc	0.0006809	Paxs	410.45	Joback Method
dvisc	0.0006237	Paxs	446.06	Joback Method
dvisc	0.0005787	Paxs	481.67	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	344.00 ± 1.00	K	1.90	NIST Webbook

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C877065&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C877065&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>mvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure

<b>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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