

# 7-Norbornyl t-butyl ether

<b>Other names:</b>	7-tert-Butoxynorbornane
<b>Inchi:</b>	InChI=1S/C11H20O/c1-11(2,3)12-10-8-4-5-9(10)7-6-8/h8-10H,4-7H2,1-3H3
<b>InchiKey:</b>	XFWPUNKKVHJGD-UHFFFAOYSA-N
<b>Formula:</b>	C11H20O
<b>SMILES:</b>	CC(C)(C)OC1C2CCC1CC2
<b>Mol. weight [g/mol]:</b>	168.28
<b>CAS:</b>	3391-07-9

## Physical Properties

Property code	Value	Unit	Source
gf	41.27	kJ/mol	Joback Method
hf	-292.24	kJ/mol	Joback Method
hfus	13.26	kJ/mol	Joback Method
hvap	40.88	kJ/mol	Joback Method
log10ws	-3.04		Crippen Method
logp	2.990		Crippen Method
mcvol	150.000	ml/mol	McGowan Method
pc	2450.74	kPa	Joback Method
tb	483.35	K	Joback Method
tc	689.38	K	Joback Method
tf	266.50	K	Joback Method
vc	0.564	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	363.66	J/mol×K	483.35	Joback Method
cpg	384.63	J/mol×K	517.69	Joback Method
cpg	404.32	J/mol×K	552.03	Joback Method
cpg	422.79	J/mol×K	586.36	Joback Method
cpg	440.12	J/mol×K	620.70	Joback Method
cpg	456.36	J/mol×K	655.04	Joback Method
cpg	471.60	J/mol×K	689.38	Joback Method
dvisc	0.0017656	Paxs	266.50	Joback Method

dvisc	0.0013237	Paxs	302.64	Joback Method
dvisc	0.0010553	Paxs	338.78	Joback Method
dvisc	0.0008789	Paxs	374.93	Joback Method
dvisc	0.0007559	Paxs	411.07	Joback Method
dvisc	0.0006662	Paxs	447.21	Joback Method
dvisc	0.0005983	Paxs	483.35	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	353.50 ± 0.50	K	2.00	NIST Webbook

## Sources

<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=C3391079&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3391079&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>

## 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>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature

**tf:** Normal melting (fusion) point

**vc:** Critical Volume

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