

# Butane, 1-(2-propenyloxy)-

<b>Other names:</b>	Ether, allyl butyl Allyl butyl ether Butyl allyl ether Allyl n-butyl ether 1-(allyloxy)butane
<b>Inchi:</b>	InChI=1S/C7H14O/c1-3-5-7-8-6-4-2/h4H,2-3,5-7H2,1H3
<b>InchiKey:</b>	IBTLFDCPAJLATQ-UHFFFAOYSA-N
<b>Formula:</b>	C7H14O
<b>SMILES:</b>	C=CCOCCCC
<b>Mol. weight [g/mol]:</b>	114.19
<b>CAS:</b>	3739-64-8

## Physical Properties

Property code	Value	Unit	Source
gf	-9.10	kJ/mol	Joback Method
hf	-194.60	kJ/mol	Joback Method
hfus	13.79	kJ/mol	Joback Method
hvap	32.92	kJ/mol	Joback Method
log10ws	-1.69		Crippen Method
logp	1.989		Crippen Method
mcvol	111.060	ml/mol	McGowan Method
pc	2875.03	kPa	Joback Method
tb	378.66	K	Joback Method
tc	546.37	K	Joback Method
tf	189.12	K	Joback Method
vc	0.426	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	204.11	J/mol×K	378.66	Joback Method
cpg	215.03	J/mol×K	406.61	Joback Method
cpg	225.59	J/mol×K	434.56	Joback Method
cpg	235.80	J/mol×K	462.52	Joback Method

cpg	245.67	J/molxK	490.47	Joback Method
cpg	255.20	J/molxK	518.42	Joback Method
cpg	264.39	J/molxK	546.37	Joback Method
dvisc	0.0032848	Paxs	189.12	Joback Method
dvisc	0.0015105	Paxs	220.71	Joback Method
dvisc	0.0008438	Paxs	252.30	Joback Method
dvisc	0.0005365	Paxs	283.89	Joback Method
dvisc	0.0003736	Paxs	315.48	Joback Method
dvisc	0.0002778	Paxs	347.07	Joback Method
dvisc	0.0002171	Paxs	378.66	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	390.70	K	102.00	NIST Webbook

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C3739648&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3739648&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>tbrp:</b>	Boiling point at reduced pressure
<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/52-444-1/Butane-1-2-propenyloxy.pdf>

Generated by Cheméo on 2024-04-18 09:26:15.895182586 +0000 UTC m=+15721624.815759898.

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