

# Butyl hexadecyl ether

Inchi:	InChI=1S/C20H42O/c1-3-5-7-8-9-10-11-12-13-14-15-16-17-18-20-21-19-6-4-2/h3-20H2,
InchiKey:	OZQXZXKPJXQTND-UHFFFAOYSA-N
Formula:	C20H42O
SMILES:	CCCCCCCCCCCCCCCCOCCCC
Mol. weight [g/mol]:	298.55

## Physical Properties

Property code	Value	Unit	Source
gf	12.52	kJ/mol	Joback Method
hf	-588.35	kJ/mol	Joback Method
hfus	48.74	kJ/mol	Joback Method
hvap	62.52	kJ/mol	Joback Method
log10ws	-7.28		Crippen Method
logp	7.284		Crippen Method
mcvol	298.530	ml/mol	McGowan Method
pc	1004.62	kPa	Joback Method
rinsol	2076.00		NIST Webbook
tb	679.42	K	Joback Method
tc	841.55	K	Joback Method
tf	337.39	K	Joback Method
vc	1.173	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	874.71	J/molxK	679.42	Joback Method
cpg	970.01	J/molxK	814.53	Joback Method
cpg	952.59	J/molxK	787.51	Joback Method
cpg	934.37	J/molxK	760.49	Joback Method
cpg	915.33	J/molxK	733.46	Joback Method
cpg	895.45	J/molxK	706.44	Joback Method
cpg	986.65	J/molxK	841.55	Joback Method
dvisc	0.0000748	Paxs	679.42	Joback Method
dvisc	0.0001022	Paxs	622.41	Joback Method

dvisc	0.0001487	Paxs	565.41	Joback Method
dvisc	0.0002354	Paxs	508.40	Joback Method
dvisc	0.0004185	Paxs	451.40	Joback Method
dvisc	0.0008784	Paxs	394.39	Joback Method
dvisc	0.0023688	Paxs	337.39	Joback Method

## 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=U406405&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406405&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>rinpol:</b>	Non-polar retention indices
<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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