

# 1-(1-Butoxypropan-2-yloxy)propan-2-yl 3,5,5-trimethylhexanoate

Inchi:	InChI=1S/C19H38O4/c1-8-9-10-21-13-16(3)22-14-17(4)23-18(20)11-15(2)12-19(5,6)7/h1
InchiKey:	PGFMVCGDTBSNIV-UHFFFAOYSA-N
Formula:	C19H38O4
SMILES:	CCCCOCC(C)OCC(C)OC(=O)CC(C)CC(C)(C)C
Mol. weight [g/mol]:	330.50

## Physical Properties

Property code	Value	Unit	Source
gf	-339.30	kJ/mol	Joback Method
hf	-969.32	kJ/mol	Joback Method
hfus	32.15	kJ/mol	Joback Method
hvap	69.40	kJ/mol	Joback Method
log10ws	-4.55		Crippen Method
logp	4.602		Crippen Method
mcvol	297.750	ml/mol	McGowan Method
pc	1120.80	kPa	Joback Method
rinsol	1882.00		NIST Webbook
tb	750.70	K	Joback Method
tc	932.18	K	Joback Method
tf	377.93	K	Joback Method
vc	1.131	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	916.52	J/molxK	750.70	Joback Method
cpg	936.06	J/molxK	780.95	Joback Method
cpg	954.54	J/molxK	811.19	Joback Method
cpg	971.98	J/molxK	841.44	Joback Method
cpg	988.40	J/molxK	871.69	Joback Method
cpg	1003.82	J/molxK	901.94	Joback Method
cpg	1018.26	J/molxK	932.18	Joback Method
dvisc	0.0017382	Paxs	377.93	Joback Method
dvisc	0.0005529	Paxs	440.06	Joback Method

dvisc	0.0002335	Paxs	502.19	Joback Method
dvisc	0.0001192	Paxs	564.32	Joback Method
dvisc	0.0000696	Paxs	626.44	Joback Method
dvisc	0.0000447	Paxs	688.57	Joback Method
dvisc	0.0000309	Paxs	750.70	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U378243&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U378243&amp;Units=SI</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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