

# 1-Methoxy-18-methylnonacosane

<b>Inchi:</b>	InChI=1S/C30H62O/c1-4-5-6-7-8-18-21-24-27-30(2)28-25-22-19-16-14-12-10-9-11-13-15
<b>InchiKey:</b>	ABZIOGLMFIZATR-UHFFFAOYSA-N
<b>Formula:</b>	C30H62O
<b>SMILES:</b>	CCCCCCCCCCC(C)CCCCCCCCCCCCCCCCCOC
<b>Mol. weight [g/mol]:</b>	438.81

## Physical Properties

Property code	Value	Unit	Source
gf	94.28	kJ/mol	Joback Method
hf	-800.03	kJ/mol	Joback Method
hfus	71.12	kJ/mol	Joback Method
hvap	84.40	kJ/mol	Joback Method
log10ws	-11.23		Crippen Method
logp	11.041		Crippen Method
mcvol	439.430	ml/mol	McGowan Method
pc	592.86	kPa	Joback Method
rinpol	3162.00		NIST Webbook
tb	907.78	K	Joback Method
tc	1121.15	K	Joback Method
tf	435.09	K	Joback Method
vc	1.728	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1518.98	J/molxK	907.78	Joback Method
cpg	1546.22	J/molxK	943.34	Joback Method
cpg	1571.74	J/molxK	978.90	Joback Method
cpg	1595.62	J/molxK	1014.47	Joback Method
cpg	1617.94	J/molxK	1050.03	Joback Method
cpg	1638.78	J/molxK	1085.59	Joback Method
cpg	1658.22	J/molxK	1121.15	Joback Method
dvisc	0.0008465	Paxs	435.09	Joback Method
dvisc	0.0002651	Paxs	513.87	Joback Method

dvisc	0.0001130	Paxs	592.65	Joback Method
dvisc	0.0000589	Paxs	671.43	Joback Method
dvisc	0.0000352	Paxs	750.22	Joback Method
dvisc	0.0000232	Paxs	829.00	Joback Method
dvisc	0.0000164	Paxs	907.78	Joback Method

## Sources

<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=R547045&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R547045&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>

## 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>mccvol:</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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