

# 1-Methoxy-2,24-dimethylhexacosane

Inchi:	InChI=1S/C29H60O/c1-5-28(2)25-23-21-19-17-15-13-11-9-7-6-8-10-12-14-16-18-20-22-2
InchiKey:	ACGBCIMPGGIOIG-UHFFFAOYSA-N
Formula:	C29H60O
SMILES:	CCC(C)CCCCCCCCCCCCCCCCCCCCC(C)COC
Mol. weight [g/mol]:	424.79

## Physical Properties

Property code	Value	Unit	Source
gf	83.42	kJ/mol	Joback Method
hf	-784.67	kJ/mol	Joback Method
hfus	65.01	kJ/mol	Joback Method
hvap	81.78	kJ/mol	Joback Method
log10ws	-10.57		Crippen Method
logp	10.507		Crippen Method
mcvol	425.340	ml/mol	McGowan Method
pc	624.06	kPa	Joback Method
rinpol	2947.00		NIST Webbook
tb	884.46	K	Joback Method
tc	1087.34	K	Joback Method
tf	408.82	K	Joback Method
vc	1.665	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1452.07	J/molxK	884.46	Joback Method
cpg	1478.20	J/molxK	918.27	Joback Method
cpg	1502.77	J/molxK	952.09	Joback Method
cpg	1525.85	J/molxK	985.90	Joback Method
cpg	1547.49	J/molxK	1019.71	Joback Method
cpg	1567.76	J/molxK	1053.52	Joback Method
cpg	1586.73	J/molxK	1087.34	Joback Method
dvisc	0.0012395	Paxs	408.82	Joback Method
dvisc	0.0003423	Paxs	488.09	Joback Method

dvisc	0.0001355	Paxs	567.37	Joback Method
dvisc	0.0000673	Paxs	646.64	Joback Method
dvisc	0.0000389	Paxs	725.91	Joback Method
dvisc	0.0000251	Paxs	805.19	Joback Method
dvisc	0.0000175	Paxs	884.46	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R547174&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R547174&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>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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