

# 1-Methoxy-2,22-dimethylpentacosane

**Inchi:** InChI=1S/C28H58O/c1-5-23-27(2)24-21-19-17-15-13-11-9-7-6-8-10-12-14-16-18-20-22-28  
**InchiKey:** AUPKOQDZGVAEBP-UHFFFAOYSA-N  
**Formula:** C28H58O  
**SMILES:** CCCC(C)CCCCCCCCCCCCCCCCCCCCC(C)COC  
**Mol. weight [g/mol]:** 410.76

## Physical Properties

Property code	Value	Unit	Source
gf	75.00	kJ/mol	Joback Method
hf	-764.03	kJ/mol	Joback Method
hfus	62.42	kJ/mol	Joback Method
hvap	79.56	kJ/mol	Joback Method
log10ws	-10.15		Crippen Method
logp	10.117		Crippen Method
mvol	411.250	ml/mol	McGowan Method
pc	655.11	kPa	Joback Method
rinpol	2832.00		NIST Webbook
rinpol	2832.00		NIST Webbook
tb	861.58	K	Joback Method
tc	1056.81	K	Joback Method
tf	397.55	K	Joback Method
vc	1.609	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1385.30	J/molxK	861.58	Joback Method
cpg	1410.65	J/molxK	894.12	Joback Method
cpg	1434.56	J/molxK	926.66	Joback Method
cpg	1457.08	J/molxK	959.20	Joback Method
cpg	1478.28	J/molxK	991.74	Joback Method
cpg	1498.19	J/molxK	1024.27	Joback Method
cpg	1516.89	J/molxK	1056.81	Joback Method
dvisc	0.0014446	Paxs	397.55	Joback Method

dvisc	0.0003984	Paxs	474.89	Joback Method
dvisc	0.0001576	Paxs	552.23	Joback Method
dvisc	0.0000783	Paxs	629.57	Joback Method
dvisc	0.0000453	Paxs	706.90	Joback Method
dvisc	0.0000292	Paxs	784.24	Joback Method
dvisc	0.0000204	Paxs	861.58	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=R547149&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R547149&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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