

# 1-Methoxy-2,28-dimethyltriacontane

<b>Inchi:</b>	InChI=1S/C33H68O/c1-5-32(2)29-27-25-23-21-19-17-15-13-11-9-7-6-8-10-12-14-16-18-2
<b>InchiKey:</b>	SCUOMEPIXKFAVKS-UHFFFAOYSA-N
<b>Formula:</b>	C33H68O
<b>SMILES:</b>	CCC(C)CCCCCCCCCCCCCCCCCCCCCCCCCCCC(C)COC
<b>Mol. weight [g/mol]:</b>	480.89

## Physical Properties

Property code	Value	Unit	Source
gf	117.10	kJ/mol	Joback Method
hf	-867.23	kJ/mol	Joback Method
hfus	75.37	kJ/mol	Joback Method
hvap	90.69	kJ/mol	Joback Method
log10ws	-12.24		Crippen Method
logp	12.068		Crippen Method
mcvol	481.700	ml/mol	McGowan Method
pc	519.59	kPa	Joback Method
rinpol	3348.00		NIST Webbook
rinpol	3348.00		NIST Webbook
tb	975.98	K	Joback Method
tc	1221.65	K	Joback Method
tf	453.90	K	Joback Method
vc	1.889	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1723.45	J/molxK	975.98	Joback Method
cpg	1753.58	J/molxK	1016.92	Joback Method
cpg	1781.46	J/molxK	1057.87	Joback Method
cpg	1807.22	J/molxK	1098.81	Joback Method
cpg	1830.99	J/molxK	1139.76	Joback Method
cpg	1852.90	J/molxK	1180.70	Joback Method
cpg	1873.09	J/molxK	1221.65	Joback Method
dvisc	0.0006608	Paxs	453.90	Joback Method

dvisc	0.0001835	Paxs	540.91	Joback Method
dvisc	0.0000727	Paxs	627.93	Joback Method
dvisc	0.0000361	Paxs	714.94	Joback Method
dvisc	0.0000208	Paxs	801.95	Joback Method
dvisc	0.0000134	Paxs	888.97	Joback Method
dvisc	0.0000093	Paxs	975.98	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R547218&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R547218&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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