

# 1-Methoxy-2,12-dimethyltricosane

<b>Inchi:</b>	InChI=1S/C25H52O/c1-5-6-7-8-9-11-14-17-20-24(2)21-18-15-12-10-13-16-19-22-25(3)23
<b>InchiKey:</b>	MEHVCWKLNLDKDN-UHFFFAOYSA-N
<b>Formula:</b>	C25H52O
<b>SMILES:</b>	CCCCCCCCCCC(C)CCCCCCCCC(C)COC
<b>Mol. weight [g/mol]:</b>	368.68

## Physical Properties

Property code	Value	Unit	Source
gf	49.74	kJ/mol	Joback Method
hf	-702.11	kJ/mol	Joback Method
hfus	54.65	kJ/mol	Joback Method
hvap	72.88	kJ/mol	Joback Method
log10ws	-8.89		Crippen Method
logp	8.947		Crippen Method
mvol	368.980	ml/mol	McGowan Method
pc	763.52	kPa	Joback Method
rinpol	2606.00		NIST Webbook
tb	792.94	K	Joback Method
tc	971.14	K	Joback Method
tf	363.74	K	Joback Method
vc	1.442	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1188.40	J/molxK	792.94	Joback Method
cpg	1211.83	J/molxK	822.64	Joback Method
cpg	1234.09	J/molxK	852.34	Joback Method
cpg	1255.23	J/molxK	882.04	Joback Method
cpg	1275.26	J/molxK	911.74	Joback Method
cpg	1294.23	J/molxK	941.44	Joback Method
cpg	1312.18	J/molxK	971.14	Joback Method
dvisc	0.0022602	Paxs	363.74	Joback Method
dvisc	0.0006202	Paxs	435.27	Joback Method

dvisc	0.0002452	Paxs	506.81	Joback Method
dvisc	0.0001219	Paxs	578.34	Joback Method
dvisc	0.0000707	Paxs	649.87	Joback Method
dvisc	0.0000457	Paxs	721.41	Joback Method
dvisc	0.0000319	Paxs	792.94	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R547065&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R547065&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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