

# 1-Docosanol, methyl ether

<b>Inchi:</b>	InChI=1S/C23H48O/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25
<b>InchiKey:</b>	QYXQOJNAQHQRSY-UHFFFAOYSA-N
<b>Formula:</b>	C23H48O
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCCCCCO
<b>Mol. weight [g/mol]:</b>	340.63

## Physical Properties

Property code	Value	Unit	Source
gf	37.78	kJ/mol	Joback Method
hf	-650.27	kJ/mol	Joback Method
hfus	56.51	kJ/mol	Joback Method
hvap	69.20	kJ/mol	Joback Method
log10ws	-8.54		Crippen Method
logp	8.455		Crippen Method
mcvol	340.800	ml/mol	McGowan Method
pc	843.58	kPa	Joback Method
rinpol	2427.50		NIST Webbook
tb	748.06	K	Joback Method
tc	917.69	K	Joback Method
tf	371.20	K	Joback Method
vc	1.341	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1059.80	J/molxK	748.06	Joback Method
cpg	1082.02	J/molxK	776.33	Joback Method
cpg	1103.22	J/molxK	804.60	Joback Method
cpg	1123.45	J/molxK	832.87	Joback Method
cpg	1142.71	J/molxK	861.14	Joback Method
cpg	1161.05	J/molxK	889.42	Joback Method
cpg	1178.49	J/molxK	917.69	Joback Method
dvisc	0.0017041	Paxs	371.20	Joback Method
dvisc	0.0006188	Paxs	434.01	Joback Method

dvisc	0.0002903	Paxs	496.82	Joback Method
dvisc	0.0001614	Paxs	559.63	Joback Method
dvisc	0.0001010	Paxs	622.44	Joback Method
dvisc	0.0000689	Paxs	685.25	Joback Method
dvisc	0.0000501	Paxs	748.06	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=U333919&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U333919&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>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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