

# Lophenol

<b>Inchi:</b>	InChI=1S/C28H48O/c1-18(2)8-7-9-19(3)22-12-13-24-21-10-11-23-20(4)26(29)15-17-28(2)
<b>InchiKey:</b>	LMYZQUNLYGJIHI-COAMLSHOSA-N
<b>Formula:</b>	C28H48O
<b>SMILES:</b>	CC(C)CCCC(C)C1CCC2C3=CCC4C(C)C(O)CCC4(C)C3CCC21C
<b>Mol. weight [g/mol]:</b>	400.68

## Physical Properties

Property code	Value	Unit	Source
gf	204.19	kJ/mol	Joback Method
hf	-528.21	kJ/mol	Joback Method
hfus	39.88	kJ/mol	Joback Method
hvap	91.75	kJ/mol	Joback Method
log10ws	-8.18		Crippen Method
logp	7.635		Crippen Method
mcvol	363.510	ml/mol	McGowan Method
pc	992.63	kPa	Joback Method
rinpol	3215.00		NIST Webbook
rinpol	3215.00		NIST Webbook
tb	965.59	K	Joback Method
tc	1187.42	K	Joback Method
tf	534.42	K	Joback Method
vc	1.377	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1389.24	J/mol×K	965.59	Joback Method
cpg	1420.61	J/mol×K	1002.56	Joback Method
cpg	1452.48	J/mol×K	1039.53	Joback Method
cpg	1485.16	J/mol×K	1076.51	Joback Method
cpg	1518.98	J/mol×K	1113.48	Joback Method
cpg	1554.23	J/mol×K	1150.45	Joback Method
cpg	1591.25	J/mol×K	1187.42	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=R596864&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R596864&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>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>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>rinpola:</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

Latest version available from:

<https://www.cheméo.com/cid/77-630-7/Lophenol.pdf>

Generated by Cheméo on 2024-04-23 15:33:32.899864058 +0000 UTC m=+16175661.820441370.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.