

# 1-Hentetracontanol

<b>Inchi:</b>	InChI=1S/C41H84O/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-
<b>InchiKey:</b>	SCQWVCOZCILOSS-UHFFFAOYSA-N
<b>Formula:</b>	C41H84O
<b>SMILES:</b>	CCO
<b>Mol. weight [g/mol]:</b>	593.11
<b>CAS:</b>	40710-42-7

## Physical Properties

Property code	Value	Unit	Source
gf	157.52	kJ/mol	Joback Method
hf	-1041.80	kJ/mol	Joback Method
hfus	106.03	kJ/mol	Joback Method
hvap	123.54	kJ/mol	Joback Method
log10ws	-16.25		Crippen Method
logp	15.213		Crippen Method
mvol	594.420	ml/mol	McGowan Method
pc	390.26	kPa	Joback Method
tb	1229.66	K	Joback Method
tc	1792.56	K	Joback Method
tf	612.65	K	Joback Method
vc	2.350	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	2329.02	J/molxK	1229.66	Joback Method
cpg	2581.26	J/molxK	1698.74	Joback Method
cpg	2531.93	J/molxK	1604.93	Joback Method
cpg	2484.44	J/molxK	1511.11	Joback Method
cpg	2436.40	J/molxK	1417.29	Joback Method
cpg	2385.40	J/molxK	1323.48	Joback Method
cpg	2634.87	J/molxK	1792.56	Joback Method
dvisc	0.0000004	Paxs	1229.66	Joback Method
dvisc	0.0000006	Paxs	1126.82	Joback Method

dvisc	0.0000010	Paxs	1023.99	Joback Method
dvisc	0.0000019	Paxs	921.15	Joback Method
dvisc	0.0000043	Paxs	818.32	Joback Method
dvisc	0.0000121	Paxs	715.48	Joback Method
dvisc	0.0000483	Paxs	612.65	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C40710427&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C40710427&amp;Units=SI</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>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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