

# Hentriacontane, 2,6,10,14,18,22,26-heptamethyl

Inchi:	InChI=1S/C38H78/c1-10-11-12-20-33(4)22-14-24-35(6)26-16-28-37(8)30-18-31-38(9)29
InchiKey:	HYWOCBILVMRQRY-UHFFFAOYSA-N
Formula:	C38H78
SMILES:	CCCCC(C)CCCC(C)CCCC(C)CCCC(C)CCCC(C)CCCC(C)CCCC(C)C
Mol. weight [g/mol]:	535.03

## Physical Properties

Property code	Value	Unit	Source
gf	252.00	kJ/mol	Joback Method
hf	-864.61	kJ/mol	Joback Method
hfus	69.52	kJ/mol	Joback Method
hvap	97.47	kJ/mol	Joback Method
log10ws	-14.04		Crippen Method
logp	14.061		Crippen Method
mcvol	546.280	ml/mol	McGowan Method
pc	432.22	kPa	Joback Method
rinpol	3298.00		NIST Webbook
rinpol	3288.00		NIST Webbook
rinpol	3288.00		NIST Webbook
rinpol	3298.00		NIST Webbook
rinpol	3288.00		NIST Webbook
rinpol	3298.00		NIST Webbook
tb	1065.76	K	Joback Method
tc	1355.62	K	Joback Method
tf	413.02	K	Joback Method
vc	2.122	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	2035.41	J/molxK	1065.76	Joback Method
cpg	2182.07	J/molxK	1307.31	Joback Method
cpg	2157.19	J/molxK	1259.00	Joback Method
cpg	2130.38	J/molxK	1210.69	Joback Method

cpg	2101.34	J/molxK	1162.38	Joback Method
cpg	2069.78	J/molxK	1114.07	Joback Method
cpg	2205.32	J/molxK	1355.62	Joback Method
dvisc	0.0000035	Paxs	1065.76	Joback Method
dvisc	0.0000055	Paxs	956.97	Joback Method
dvisc	0.0000095	Paxs	848.18	Joback Method
dvisc	0.0000196	Paxs	739.39	Joback Method
dvisc	0.0000515	Paxs	630.60	Joback Method
dvisc	0.0002034	Paxs	521.81	Joback Method
dvisc	0.0016552	Paxs	413.02	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=R213782&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R213782&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

Latest version available from:

<https://www.cheméo.com/cid/27-168-6/Hentriacontane-2-6-10-14-18-22-26-heptamethyl.pdf>

Generated by Cheméo on 2025-12-05 13:29:46.685150338 +0000 UTC m=+4689584.215191002.

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