

# 5-Ethyl-5-methylhenicosane

<b>Inchi:</b>	InChI=1S/C24H50/c1-5-8-10-11-12-13-14-15-16-17-18-19-20-21-23-24(4,7-3)22-9-6-2/h
<b>InchiKey:</b>	QTRUUSFEKLOCKER-UHFFFAOYSA-N
<b>Formula:</b>	C24H50
<b>SMILES:</b>	CCCCCCCCCCCCCCCC(C)(CC)CCCC
<b>Mol. weight [g/mol]:</b>	338.65

## Physical Properties

Property code	Value	Unit	Source
gf	154.04	kJ/mol	Joback Method
hf	-547.44	kJ/mol	Joback Method
hfus	50.50	kJ/mol	Joback Method
hvap	67.72	kJ/mol	Joback Method
log10ws	-9.63		Crippen Method
logp	9.464		Crippen Method
mcvol	349.020	ml/mol	McGowan Method
pc	814.93	kPa	Joback Method
rinsol	2313.00		NIST Webbook
tb	745.29	K	Joback Method
tc	916.52	K	Joback Method
tf	362.66	K	Joback Method
vc	1.369	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1088.46	J/molxK	745.29	Joback Method
cpg	1111.31	J/molxK	773.83	Joback Method
cpg	1133.11	J/molxK	802.37	Joback Method
cpg	1153.90	J/molxK	830.91	Joback Method
cpg	1173.73	J/molxK	859.45	Joback Method
cpg	1192.65	J/molxK	887.99	Joback Method
cpg	1210.70	J/molxK	916.52	Joback Method
dvisc	0.0025379	Paxs	362.66	Joback Method
dvisc	0.0007963	Paxs	426.43	Joback Method

dvisc	0.0003378	Paxs	490.20	Joback Method
dvisc	0.0001746	Paxs	553.97	Joback Method
dvisc	0.0001034	Paxs	617.75	Joback Method
dvisc	0.0000676	Paxs	681.52	Joback Method
dvisc	0.0000475	Paxs	745.29	Joback Method

## Sources

<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=R415626&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R415626&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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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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