

# Heptadecane, 9-hexyl-

<b>Other names:</b>	9-n-Hexylheptadecane 9-Hexyl-heptadecane
<b>Inchi:</b>	InChI=1S/C23H48/c1-4-7-10-13-15-18-21-23(20-17-12-9-6-3)22-19-16-14-11-8-5-2/h23H
<b>InchiKey:</b>	ZUSMXUXZJCOSPV-UHFFFAOYSA-N
<b>Formula:</b>	C23H48
<b>SMILES:</b>	CCCCCCCCC(CCCCC)CCCCCCCC
<b>Mol. weight [g/mol]:</b>	324.63
<b>CAS:</b>	55124-79-3

## Physical Properties

Property code	Value	Unit	Source
gf	140.34	kJ/mol	Joback Method
hf	-523.33	kJ/mol	Joback Method
hfus	51.80	kJ/mol	Joback Method
hvap	66.40	kJ/mol	Joback Method
log10ws	-9.21		Crippen Method
logp	9.074		Crippen Method
mvol	334.930	ml/mol	McGowan Method
pc	855.96	kPa	Joback Method
tb	725.20	K	Joback Method
tc	892.42	K	Joback Method
tf	253.80 ± 0.60	K	NIST Webbook
tf	253.75	K	NIST Webbook
vc	1.317	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1024.67	J/mol×K	725.20	Joback Method
cpg	1047.11	J/mol×K	753.07	Joback Method
cpg	1068.56	J/mol×K	780.94	Joback Method
cpg	1089.04	J/mol×K	808.81	Joback Method
cpg	1108.60	J/mol×K	836.68	Joback Method
cpg	1127.28	J/mol×K	864.55	Joback Method

cpg	1145.09	J/mol×K	892.42	Joback Method
dvisc	0.0035428	Paxs	333.97	Joback Method
dvisc	0.0010359	Paxs	399.17	Joback Method
dvisc	0.0004278	Paxs	464.38	Joback Method
dvisc	0.0002197	Paxs	529.59	Joback Method
dvisc	0.0001306	Paxs	594.79	Joback Method
dvisc	0.0000860	Paxs	659.99	Joback Method
dvisc	0.0000611	Paxs	725.20	Joback Method
hvapt	82.60	kJ/mol	468.00	NIST Webbook

## 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=C55124793&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C55124793&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>hvapt:</b>	Enthalpy of vaporization at a given temperature
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mccvol:</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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