

# Heptadecane, 9-octyl-

<b>Other names:</b>	9-octyl-heptadecane
<b>Inchi:</b>	InChI=1S/C25H52/c1-4-7-10-13-16-19-22-25(23-20-17-14-11-8-5-2)24-21-18-15-12-9-6-3
<b>InchiKey:</b>	ZLIOPNROBPMBFI-UHFFFAOYSA-N
<b>Formula:</b>	C25H52
<b>SMILES:</b>	CCCCCCCCC(CCCCCCCC)CCCCCCCC
<b>Mol. weight [g/mol]:</b>	352.68
<b>CAS:</b>	7225-64-1

## Physical Properties

Property code	Value	Unit	Source
gf	157.18	kJ/mol	Joback Method
hf	-564.61	kJ/mol	Joback Method
hfus	56.98	kJ/mol	Joback Method
hvap	70.86	kJ/mol	Joback Method
log10ws	-10.05		Crippen Method
logp	9.854		Crippen Method
mcvol	363.110	ml/mol	McGowan Method
pc	767.34	kPa	Joback Method
tb	770.96	K	Joback Method
tc	944.71	K	Joback Method
tf	259.40 ± 1.00	K	NIST Webbook
tf	259.40 ± 2.00	K	NIST Webbook
tf	259.35	K	NIST Webbook
vc	1.429	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1151.89	J/mol×K	770.96	Joback Method
cpg	1175.34	J/mol×K	799.92	Joback Method
cpg	1197.69	J/mol×K	828.88	Joback Method
cpg	1218.99	J/mol×K	857.83	Joback Method
cpg	1239.27	J/mol×K	886.79	Joback Method
cpg	1258.59	J/mol×K	915.75	Joback Method

cpg	1276.97	J/molxK	944.71	Joback Method
dvisc	0.0027240	Paxs	356.51	Joback Method
dvisc	0.0007960	Paxs	425.58	Joback Method
dvisc	0.0003280	Paxs	494.66	Joback Method
dvisc	0.0001679	Paxs	563.73	Joback Method
dvisc	0.0000995	Paxs	632.81	Joback Method
dvisc	0.0000654	Paxs	701.88	Joback Method
dvisc	0.0000463	Paxs	770.96	Joback Method
hvapt	93.40	kJ/mol	487.50	NIST Webbook

## 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=C7225641&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C7225641&amp;Units=SI</a>
<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>

## 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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