

# Hexadecane, 4-ethyl

<b>Inchi:</b>	InChI=1S/C18H38/c1-4-7-8-9-10-11-12-13-14-15-17-18(6-3)16-5-2/h18H,4-17H2,1-3H3
<b>InchiKey:</b>	CAJDQYQXSQLIEL-UHFFFAOYSA-N
<b>Formula:</b>	C18H38
<b>SMILES:</b>	CCCCCCCCCCCC(CC)CCC
<b>Mol. weight [g/mol]:</b>	254.49

## Physical Properties

Property code	Value	Unit	Source
gf	98.24	kJ/mol	Joback Method
hf	-420.13	kJ/mol	Joback Method
hfus	38.85	kJ/mol	Joback Method
hvap	55.27	kJ/mol	Joback Method
log10ws	-7.12		Crippen Method
logp	7.124		Crippen Method
mcvol	264.480	ml/mol	McGowan Method
pc	1158.50	kPa	Joback Method
rinpol	1749.00		NIST Webbook
rinpol	1747.00		NIST Webbook
tb	610.80	K	Joback Method
tc	771.74	K	Joback Method
tf	277.62	K	Joback Method
vc	1.038	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	723.79	J/mol×K	610.80	Joback Method
cpg	744.17	J/mol×K	637.62	Joback Method
cpg	763.72	J/mol×K	664.45	Joback Method
cpg	782.48	J/mol×K	691.27	Joback Method
cpg	800.46	J/mol×K	718.09	Joback Method
cpg	817.70	J/mol×K	744.91	Joback Method
cpg	834.20	J/mol×K	771.74	Joback Method
dvisc	0.0063506	Paxs	277.62	Joback Method

dvisc	0.0018624	Paxs	333.15	Joback Method
dvisc	0.0007754	Paxs	388.68	Joback Method
dvisc	0.0004019	Paxs	444.21	Joback Method
dvisc	0.0002411	Paxs	499.74	Joback Method
dvisc	0.0001602	Paxs	555.27	Joback Method
dvisc	0.0001146	Paxs	610.80	Joback Method

## 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=R46758&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R46758&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>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</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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