

# 11,18-Dibutyl-octacosane

<b>Inchi:</b>	InChI=1S/C36H74/c1-5-9-13-15-17-19-21-25-31-35(29-11-7-3)33-27-23-24-28-34-36(30-
<b>InchiKey:</b>	PHFYMIRLVFABHS-UHFFFAOYSA-N
<b>Formula:</b>	C36H74
<b>SMILES:</b>	CCCCCCCCCCC(CCCC)CCCCCCC(CCCC)CCCCCCCCCCC
<b>Mol. weight [g/mol]:</b>	506.97

## Physical Properties

Property code	Value	Unit	Source
gf	247.36	kJ/mol	Joback Method
hf	-796.93	kJ/mol	Joback Method
hfus	81.95	kJ/mol	Joback Method
hvap	94.95	kJ/mol	Joback Method
log10ws	-14.41		Crippen Method
logp	14.001		Crippen Method
mcvol	518.100	ml/mol	McGowan Method
pc	460.89	kPa	Joback Method
rinpol	3298.00		NIST Webbook
tb	1022.20	K	Joback Method
tc	1299.46	K	Joback Method
tf	465.48	K	Joback Method
vc	2.039	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1895.15	J/molxK	1022.20	Joback Method
cpg	1929.46	J/molxK	1068.41	Joback Method
cpg	1961.17	J/molxK	1114.62	Joback Method
cpg	1990.53	J/molxK	1160.83	Joback Method
cpg	2017.80	J/molxK	1207.04	Joback Method
cpg	2043.21	J/molxK	1253.25	Joback Method
cpg	2067.02	J/molxK	1299.46	Joback Method
dvisc	0.0006531	Paxs	465.48	Joback Method
dvisc	0.0001696	Paxs	558.27	Joback Method

dvisc	0.0000647	Paxs	651.05	Joback Method
dvisc	0.0000314	Paxs	743.84	Joback Method
dvisc	0.0000179	Paxs	836.63	Joback Method
dvisc	0.0000114	Paxs	929.41	Joback Method
dvisc	0.0000079	Paxs	1022.20	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R248129&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R248129&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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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