

# Pentadecane, 8,8-diheptyl-

<b>Inchi:</b>	InChI=1S/C29H60/c1-5-9-13-17-21-25-29(26-22-18-14-10-6-2,27-23-19-15-11-7-3)28-24
<b>InchiKey:</b>	HTCXHZFBQFHUBG-UHFFFAOYSA-N
<b>Formula:</b>	C29H60
<b>SMILES:</b>	CCCCCCCC(CCCCCC)(CCCCCCC)CCCCCCC
<b>Mol. weight [g/mol]:</b>	408.79
<b>CAS:</b>	55268-72-9

## Physical Properties

Property code	Value	Unit	Source
gf	196.14	kJ/mol	Joback Method
hf	-650.64	kJ/mol	Joback Method
hfus	63.45	kJ/mol	Joback Method
hvap	78.85	kJ/mol	Joback Method
log10ws	-11.72		Crippen Method
logp	11.415		Crippen Method
mcvol	419.470	ml/mol	McGowan Method
pc	630.35	kPa	Joback Method
tb	859.69	K	Joback Method
tc	1054.01	K	Joback Method
tf	419.01	K	Joback Method
vc	1.649	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1414.48	J/molxK	859.69	Joback Method
cpg	1440.26	J/molxK	892.08	Joback Method
cpg	1464.69	J/molxK	924.46	Joback Method
cpg	1487.87	J/molxK	956.85	Joback Method
cpg	1509.87	J/molxK	989.24	Joback Method
cpg	1530.78	J/molxK	1021.62	Joback Method
cpg	1550.67	J/molxK	1054.01	Joback Method
dvisc	0.0012285	Paxs	419.01	Joback Method
dvisc	0.0003820	Paxs	492.46	Joback Method

dvisc	0.0001609	Paxs	565.90	Joback Method
dvisc	0.0000826	Paxs	639.35	Joback Method
dvisc	0.0000487	Paxs	712.80	Joback Method
dvisc	0.0000317	Paxs	786.24	Joback Method
dvisc	0.0000222	Paxs	859.69	Joback Method

## 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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=C55268729&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C55268729&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>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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