

# Octacosane, 3-methyl

**Inchi:** InChI=1S/C29H60/c1-4-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29  
**InchiKey:** LMLYAJJNZSLKLY-UHFFFAOYSA-N  
**Formula:** C29H60  
**SMILES:** CCCCCCCCCCCCCCCCCCCCCCCCCCCCC(C)CC  
**Mol. weight [g/mol]:** 408.79  
**CAS:** 65820-58-8

## Physical Properties

Property code	Value	Unit	Source
gf	190.86	kJ/mol	Joback Method
hf	-647.17	kJ/mol	Joback Method
hfus	67.34	kJ/mol	Joback Method
hvap	79.76	kJ/mol	Joback Method
log10ws	-11.72		Crippen Method
logp	11.415		Crippen Method
mcvol	419.470	ml/mol	McGowan Method
pc	626.88	kPa	Joback Method
rinpol	2872.00		NIST Webbook
rinpol	2869.00		NIST Webbook
rinpol	2872.00		NIST Webbook
rinpol	2875.00		NIST Webbook
rinpol	2875.00		NIST Webbook
rinpol	2875.00		NIST Webbook
rinpol	2881.00		NIST Webbook
rinpol	2876.40		NIST Webbook
rinpol	2871.90		NIST Webbook
tb	862.48	K	Joback Method
tc	1058.99	K	Joback Method
tf	401.59	K	Joback Method
vc	1.653	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	1415.09	J/molxK	862.48	Joback Method
cpg	1441.31	J/molxK	895.23	Joback Method
cpg	1466.11	J/molxK	927.98	Joback Method
cpg	1489.57	J/molxK	960.74	Joback Method
cpg	1511.74	J/molxK	993.49	Joback Method
cpg	1532.71	J/molxK	1026.24	Joback Method
cpg	1552.54	J/molxK	1058.99	Joback Method
dvisc	0.0015539	Paxs	401.59	Joback Method
dvisc	0.0004537	Paxs	478.40	Joback Method
dvisc	0.0001863	Paxs	555.22	Joback Method
dvisc	0.0000949	Paxs	632.04	Joback Method
dvisc	0.0000560	Paxs	708.85	Joback Method
dvisc	0.0000366	Paxs	785.66	Joback Method
dvisc	0.0000258	Paxs	862.48	Joback Method

## Sources

<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=C65820588&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C65820588&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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

**tf:** Normal melting (fusion) point

**vc:** Critical Volume

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