

# 4,10-Dimethyloctacosane

**Inchi:** InChI=1S/C30H62/c1-5-7-8-9-10-11-12-13-14-15-16-17-18-19-20-22-27-30(4)28-24-21-2  
**InchiKey:** BLPCTTCKMWUSLT-UHFFFAOYSA-N  
**Formula:** C30H62  
**SMILES:** CCCCCCCCCCCCCCCCCC(C)CCCCC(C)CCC  
**Mol. weight [g/mol]:** 422.81

## Physical Properties

Property code	Value	Unit	Source
gf	196.84	kJ/mol	Joback Method
hf	-673.09	kJ/mol	Joback Method
hfus	66.41	kJ/mol	Joback Method
hvap	81.60	kJ/mol	Joback Method
log10ws	-11.90		Crippen Method
logp	11.661		Crippen Method
mcvol	433.560	ml/mol	McGowan Method
pc	600.14	kPa	Joback Method
rinpol	2886.00		NIST Webbook
rinpol	2895.00		NIST Webbook
rinpol	2886.00		NIST Webbook
rinpol	2895.00		NIST Webbook
rinpol	2895.00		NIST Webbook
tb	884.92	K	Joback Method
tc	1088.23	K	Joback Method
tf	397.86	K	Joback Method
vc	1.704	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1482.72	J/mol×K	884.92	Joback Method
cpg	1602.94	J/mol×K	1054.35	Joback Method
cpg	1581.62	J/mol×K	1020.46	Joback Method
cpg	1559.02	J/mol×K	986.58	Joback Method
cpg	1535.06	J/mol×K	952.69	Joback Method

cpg	1509.65	J/mol×K	918.81	Joback Method
cpg	1623.05	J/mol×K	1088.23	Joback Method
dvisc	0.0000203	Paxs	884.92	Joback Method
dvisc	0.0000293	Paxs	803.74	Joback Method
dvisc	0.0000459	Paxs	722.57	Joback Method
dvisc	0.0000805	Paxs	641.39	Joback Method
dvisc	0.0001663	Paxs	560.21	Joback Method
dvisc	0.0004393	Paxs	479.04	Joback Method
dvisc	0.0017248	Paxs	397.86	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=R404616&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R404616&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
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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