

# Heptacosane, 12-methyl

Inchi:	InChI=1S/C28H58/c1-4-6-8-10-12-14-15-16-17-19-21-23-25-27-28(3)26-24-22-20-18-13
InchiKey:	GOWFHKPCYZQLBT-UHFFFAOYSA-N
Formula:	C28H58
SMILES:	CCCCCCCCCCCCCCCC(C)CCCCCCCCCCC
Mol. weight [g/mol]:	394.76

## Physical Properties

Property code	Value	Unit	Source
gf	182.44	kJ/mol	Joback Method
hf	-626.53	kJ/mol	Joback Method
hfus	64.75	kJ/mol	Joback Method
hvap	77.53	kJ/mol	Joback Method
log10ws	-11.30		Crippen Method
logp	11.025		Crippen Method
mcvol	405.380	ml/mol	McGowan Method
pc	658.14	kPa	Joback Method
rinpol	2735.40		NIST Webbook
rinpol	2726.00		NIST Webbook
rinpol	2735.40		NIST Webbook
rinpol	2726.00		NIST Webbook
tb	839.60	K	Joback Method
tc	1029.02	K	Joback Method
tf	390.32	K	Joback Method
vc	1.597	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1348.34	J/molxK	839.60	Joback Method
cpg	1373.75	J/molxK	871.17	Joback Method
cpg	1397.85	J/molxK	902.74	Joback Method
cpg	1420.68	J/molxK	934.31	Joback Method
cpg	1442.31	J/molxK	965.88	Joback Method
cpg	1462.81	J/molxK	997.45	Joback Method

cpg	1482.23	J/mol×K	1029.02	Joback Method
dvisc	0.0017949	Paxs	390.32	Joback Method
dvisc	0.0005242	Paxs	465.20	Joback Method
dvisc	0.0002154	Paxs	540.08	Joback Method
dvisc	0.0001099	Paxs	614.96	Joback Method
dvisc	0.0000649	Paxs	689.84	Joback Method
dvisc	0.0000425	Paxs	764.72	Joback Method
dvisc	0.0000300	Paxs	839.60	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.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=R213955&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R213955&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>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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