

# Docosane, 7-methyl

<b>Inchi:</b>	InChI=1S/C23H48/c1-4-6-8-10-11-12-13-14-15-16-17-18-20-22-23(3)21-19-9-7-5-2/h23H
<b>InchiKey:</b>	IIPQVIGTVGNYPQ-UHFFFAOYSA-N
<b>Formula:</b>	C23H48
<b>SMILES:</b>	CCCCCCCCCCCCCCCC(C)CCCCC
<b>Mol. weight [g/mol]:</b>	324.63

## Physical Properties

Property code	Value	Unit	Source
gf	140.34	kJ/mol	Joback Method
hf	-523.33	kJ/mol	Joback Method
hfus	51.80	kJ/mol	Joback Method
hvap	66.40	kJ/mol	Joback Method
log10ws	-9.21		Crippen Method
logp	9.074		Crippen Method
mcvol	334.930	ml/mol	McGowan Method
pc	855.96	kPa	Joback Method
rinpol	2244.70		NIST Webbook
rinpol	2244.70		NIST Webbook
tb	725.20	K	Joback Method
tc	892.42	K	Joback Method
tf	333.97	K	Joback Method
vc	1.317	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1024.67	J/molxK	725.20	Joback Method
cpg	1127.28	J/molxK	864.55	Joback Method
cpg	1108.60	J/molxK	836.68	Joback Method
cpg	1089.04	J/molxK	808.81	Joback Method
cpg	1068.56	J/molxK	780.94	Joback Method
cpg	1047.11	J/molxK	753.07	Joback Method
cpg	1145.09	J/molxK	892.42	Joback Method
dvisc	0.0000611	Paxs	725.20	Joback Method

dvisc	0.0000860	Paxs	659.99	Joback Method
dvisc	0.0001306	Paxs	594.79	Joback Method
dvisc	0.0002197	Paxs	529.59	Joback Method
dvisc	0.0004278	Paxs	464.38	Joback Method
dvisc	0.0010359	Paxs	399.17	Joback Method
dvisc	0.0035428	Paxs	333.97	Joback Method

## Sources

<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=R570659&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R570659&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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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