

# 7-Methyldotriacontane

<b>Inchi:</b>	InChI=1S/C33H68/c1-4-6-8-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28
<b>InchiKey:</b>	GETFWLQYIJQAMO-UHFFFAOYSA-N
<b>Formula:</b>	C33H68
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCCCCCCCCCCCC(C)CCCCC
<b>Mol. weight [g/mol]:</b>	464.89

## Physical Properties

Property code	Value	Unit	Source
gf	224.54	kJ/mol	Joback Method
hf	-729.73	kJ/mol	Joback Method
hfus	77.70	kJ/mol	Joback Method
hvap	88.66	kJ/mol	Joback Method
log10ws	-13.39		Crippen Method
logp	12.975		Crippen Method
mcvol	475.830	ml/mol	McGowan Method
pc	521.73	kPa	Joback Method
rinpol	3225.00		NIST Webbook
tb	954.00	K	Joback Method
tc	1190.48	K	Joback Method
tf	446.67	K	Joback Method
vc	1.877	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1687.02	J/molxK	954.00	Joback Method
cpg	1820.84	J/molxK	1151.07	Joback Method
cpg	1797.49	J/molxK	1111.65	Joback Method
cpg	1772.57	J/molxK	1072.24	Joback Method
cpg	1745.95	J/molxK	1032.83	Joback Method
cpg	1717.48	J/molxK	993.41	Joback Method
cpg	1842.77	J/molxK	1190.48	Joback Method
dvisc	0.0000140	Paxs	954.00	Joback Method
dvisc	0.0000199	Paxs	869.44	Joback Method

dvisc	0.0000305	Paxs	784.89	Joback Method
dvisc	0.0000519	Paxs	700.34	Joback Method
dvisc	0.0001021	Paxs	615.78	Joback Method
dvisc	0.0002494	Paxs	531.22	Joback Method
dvisc	0.0008545	Paxs	446.67	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=R530666&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R530666&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

Latest version available from:

<https://www.chemeo.com/cid/40-947-6/7-Methyldotriacontane.pdf>

Generated by Cheméo on 2024-04-24 04:55:02.224194692 +0000 UTC m=+16223751.144772004.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.