

# 9-Methyltrtriacontane

<b>Other names:</b>	Tritriacontane, 9-methyl
<b>Inchi:</b>	InChI=1S/C34H70/c1-4-6-8-10-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-29-31
<b>InchiKey:</b>	QAPBJPAUNVSNJQ-UHFFFAOYSA-N
<b>Formula:</b>	C34H70
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCCCCCCCCCCCC(C)CCCCCCCC
<b>Mol. weight [g/mol]:</b>	478.92
<b>CAS:</b>	58349-86-3

## Physical Properties

Property code	Value	Unit	Source
gf	232.96	kJ/mol	Joback Method
hf	-750.37	kJ/mol	Joback Method
hfus	80.29	kJ/mol	Joback Method
hvap	90.89	kJ/mol	Joback Method
log10ws	-13.81		Crippen Method
logp	13.365		Crippen Method
mcvol	489.920	ml/mol	McGowan Method
pc	499.58	kPa	Joback Method
rinpol	3325.00		NIST Webbook
rinpol	3335.00		NIST Webbook
rinpol	3333.00		NIST Webbook
rinpol	3333.00		NIST Webbook
rinpol	3329.00		NIST Webbook
rinpol	3335.00		NIST Webbook
rinpol	3329.00		NIST Webbook
rinpol	3325.00		NIST Webbook
tb	976.88	K	Joback Method
tc	1226.77	K	Joback Method
tf	457.94	K	Joback Method
vc	1.933	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	1756.03	J/molxK	976.88	Joback Method
cpg	1894.95	J/molxK	1185.12	Joback Method
cpg	1870.84	J/molxK	1143.48	Joback Method
cpg	1845.07	J/molxK	1101.83	Joback Method
cpg	1817.45	J/molxK	1060.18	Joback Method
cpg	1787.83	J/molxK	1018.53	Joback Method
cpg	1917.55	J/molxK	1226.77	Joback Method
dvisc	0.0000119	Paxs	976.88	Joback Method
dvisc	0.0000170	Paxs	890.39	Joback Method
dvisc	0.0000261	Paxs	803.90	Joback Method
dvisc	0.0000444	Paxs	717.41	Joback Method
dvisc	0.0000875	Paxs	630.92	Joback Method
dvisc	0.0002138	Paxs	544.43	Joback Method
dvisc	0.0007325	Paxs	457.94	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=C58349863&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C58349863&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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