

# 17-Pentatriacontene

<b>Inchi:</b>	InChI=1S/C35H70/c1-3-5-7-9-11-13-15-17-19-21-23-25-27-29-31-33-35-34-32-30-28-26
<b>InchiKey:</b>	BLCUZCCTSBVFSV-LAPDZXRHSA-N
<b>Formula:</b>	C35H70
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCC=CCCCCCCCCCCCCCCCCCC
<b>Mol. weight [g/mol]:</b>	490.93
<b>CAS:</b>	6971-40-0

## Physical Properties

Property code	Value	Unit	Source
gf	324.04	kJ/mol	Joback Method
hf	-648.51	kJ/mol	Joback Method
hfus	86.61	kJ/mol	Joback Method
hvap	93.46	kJ/mol	Joback Method
log10ws	-14.33		Crippen Method
logp	13.675		Crippen Method
mcvol	499.710	ml/mol	McGowan Method
pc	488.17	kPa	Joback Method
tb	1004.36	K	Joback Method
tc	1268.08	K	Joback Method
tf	479.13	K	Joback Method
vc	1.976	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1797.82	J/molxK	1004.36	Joback Method
cpg	1830.70	J/molxK	1048.31	Joback Method
cpg	1861.50	J/molxK	1092.27	Joback Method
cpg	1890.44	J/molxK	1136.22	Joback Method
cpg	1917.75	J/molxK	1180.17	Joback Method
cpg	1943.67	J/molxK	1224.13	Joback Method
cpg	1968.43	J/molxK	1268.08	Joback Method
dvisc	0.0004905	Paxs	479.13	Joback Method
dvisc	0.0001545	Paxs	566.67	Joback Method

dvisc	0.0000663	Paxs	654.21	Joback Method
dvisc	0.0000348	Paxs	741.74	Joback Method
dvisc	0.0000209	Paxs	829.28	Joback Method
dvisc	0.0000138	Paxs	916.82	Joback Method
dvisc	0.0000098	Paxs	1004.36	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=C6971400&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6971400&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>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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