

# 1-Pentatricosene

<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>	NOCIDIARFGFRSA-UHFFFAOYSA-N
<b>Formula:</b>	C35H70
<b>SMILES:</b>	C=CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
<b>Mol. weight [g/mol]:</b>	490.93

## Physical Properties

Property code	Value	Unit	Source
gf	331.66	kJ/mol	Joback Method
hf	-640.30	kJ/mol	Joback Method
hfus	85.13	kJ/mol	Joback Method
hvap	92.83	kJ/mol	Joback Method
log10ws	-14.33		Crippen Method
logp	13.675		Crippen Method
mcvol	499.710	ml/mol	McGowan Method
pc	486.02	kPa	Joback Method
rinpol	2485.00		NIST Webbook
rinpol	2485.00		NIST Webbook
tb	996.88	K	Joback Method
tc	1260.26	K	Joback Method
tf	482.45	K	Joback Method
vc	1.976	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1794.09	J/molxK	996.88	Joback Method
cpg	1826.90	J/molxK	1040.78	Joback Method
cpg	1857.46	J/molxK	1084.67	Joback Method
cpg	1885.99	J/molxK	1128.57	Joback Method
cpg	1912.70	J/molxK	1172.46	Joback Method
cpg	1937.81	J/molxK	1216.36	Joback Method
cpg	1961.53	J/molxK	1260.26	Joback Method
dvisc	0.0005344	Paxs	482.45	Joback Method

dvisc	0.0001766	Paxs	568.19	Joback Method
dvisc	0.0000780	Paxs	653.93	Joback Method
dvisc	0.0000416	Paxs	739.66	Joback Method
dvisc	0.0000253	Paxs	825.40	Joback Method
dvisc	0.0000169	Paxs	911.14	Joback Method
dvisc	0.0000121	Paxs	996.88	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=R608581&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R608581&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
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/73-445-7/1-Pentatricosene.pdf>

Generated by Cheméo on 2024-04-28 08:11:01.888352367 +0000 UTC m=+16581110.808929678.

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