

# Tetracontane, 17-methyl

**Inchi:** InChI=1S/C41H84/c1-4-6-8-10-12-14-16-18-20-21-22-23-24-25-26-28-30-32-34-36-38-40  
**InchiKey:** OSGCMGMZLYRJP-UHFFFAOYSA-N  
**Formula:** C41H84  
**SMILES:** CCCCCCCCCCCCCCCCCCCCCC(C)CCCCCCCCCCCCCCCC  
**Mol. weight [g/mol]:** 577.11

## Physical Properties

Property code	Value	Unit	Source
gf	291.90	kJ/mol	Joback Method
hf	-894.85	kJ/mol	Joback Method
hfus	98.42	kJ/mol	Joback Method
hvap	106.47	kJ/mol	Joback Method
log10ws	-16.74		Crippen Method
logp	16.096		Crippen Method
mcvol	588.550	ml/mol	McGowan Method
pc	377.62	kPa	Joback Method
rinpol	4026.00		NIST Webbook
rinpol	4026.00		NIST Webbook
tb	1137.04	K	Joback Method
tc	1534.66	K	Joback Method
tf	536.83	K	Joback Method
vc	2.325	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	2246.87	J/mol×K	1137.04	Joback Method
cpg	2292.58	J/mol×K	1203.31	Joback Method
cpg	2333.99	J/mol×K	1269.58	Joback Method
cpg	2371.91	J/mol×K	1335.85	Joback Method
cpg	2407.18	J/mol×K	1402.12	Joback Method
cpg	2440.64	J/mol×K	1468.39	Joback Method
cpg	2473.12	J/mol×K	1534.66	Joback Method
dvisc	0.0002395	Paxs	536.83	Joback Method

dvisc	0.0000699	Paxs	636.86	Joback Method
dvisc	0.0000285	Paxs	736.90	Joback Method
dvisc	0.0000144	Paxs	836.93	Joback Method
dvisc	0.0000084	Paxs	936.97	Joback Method
dvisc	0.0000055	Paxs	1037.01	Joback Method
dvisc	0.0000038	Paxs	1137.04	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=R584539&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R584539&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

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