

# 2,4-Dimethyl-1-heptene

<b>Other names:</b>	1-Heptene, 2,4-dimethyl
<b>Inchi:</b>	InChI=1S/C9H18/c1-5-6-9(4)7-8(2)3/h9H,2,5-7H2,1,3-4H3
<b>InchiKey:</b>	CZGAOHSMVSIJZ-UHFFFAOYSA-N
<b>Formula:</b>	C9H18
<b>SMILES:</b>	C=C(C)CC(C)CCC
<b>Mol. weight [g/mol]:</b>	126.24
<b>CAS:</b>	19549-87-2

## Physical Properties

Property code	Value	Unit	Source
gf	101.75	kJ/mol	Joback Method
hf	-118.73	kJ/mol	Joback Method
hfus	12.95	kJ/mol	Joback Method
hvap	34.65	kJ/mol	Joback Method
log10ws	-3.20		Crippen Method
logp	3.389		Crippen Method
mcvol	133.370	ml/mol	McGowan Method
pc	2433.84	kPa	Joback Method
rinpol	828.00		NIST Webbook
rinpol	831.00		NIST Webbook
rinpol	850.00		NIST Webbook
rinpol	836.20		NIST Webbook
rinpol	836.20		NIST Webbook
rinpol	843.00		NIST Webbook
rinpol	830.00		NIST Webbook
rinpol	844.00		NIST Webbook
rinpol	840.00		NIST Webbook
rinpol	842.00		NIST Webbook
rinpol	855.00		NIST Webbook
rinpol	840.00		NIST Webbook
rinpol	850.00		NIST Webbook
rinpol	828.00		NIST Webbook
rinpol	829.00		NIST Webbook
rinpol	844.00		NIST Webbook
ripol	885.00		NIST Webbook
tb	401.44	K	Joback Method
tc	574.80	K	Joback Method

tf	160.47	K	Joback Method
vc	0.515	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	257.19	J/mol×K	401.44	Joback Method
cpg	271.44	J/mol×K	430.33	Joback Method
cpg	285.11	J/mol×K	459.23	Joback Method
cpg	298.22	J/mol×K	488.12	Joback Method
cpg	310.78	J/mol×K	517.01	Joback Method
cpg	322.81	J/mol×K	545.91	Joback Method
cpg	334.34	J/mol×K	574.80	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=C19549872&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C19549872&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>ripol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices

**tb:** Normal Boiling Point Temperature  
**tc:** Critical Temperature  
**tf:** Normal melting (fusion) point  
**vc:** Critical Volume

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