

# 2-Decene, 2-methyl-

<b>Inchi:</b>	InChI=1S/C11H22/c1-4-5-6-7-8-9-10-11(2)3/h10H,4-9H2,1-3H3
<b>InchiKey:</b>	FAVBVYLIENPQLG-UHFFFAOYSA-N
<b>Formula:</b>	C11H22
<b>SMILES:</b>	CCCCCCCC=C(C)C
<b>Mol. weight [g/mol]:</b>	154.29
<b>CAS:</b>	23381-92-2

## Physical Properties

Property code	Value	Unit	Source
gf	113.41	kJ/mol	Joback Method
hf	-162.94	kJ/mol	Joback Method
hfus	23.14	kJ/mol	Joback Method
hvap	40.12	kJ/mol	Joback Method
log10ws	-4.28		Crippen Method
logp	4.313		Crippen Method
mvol	161.550	ml/mol	McGowan Method
pc	2034.55	kPa	Joback Method
tb	465.20 ± 2.00	K	NIST Webbook
tc	627.34	K	Joback Method
tf	194.69	K	Joback Method
vc	0.632	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	344.50	J/mol×K	455.12	Joback Method
cpg	360.58	J/mol×K	483.82	Joback Method
cpg	375.97	J/mol×K	512.53	Joback Method
cpg	390.70	J/mol×K	541.23	Joback Method
cpg	404.79	J/mol×K	569.93	Joback Method
cpg	418.28	J/mol×K	598.63	Joback Method
cpg	431.17	J/mol×K	627.34	Joback Method

# Sources

<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=C23381922&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C23381922&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>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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