

# 1-Decene, 2,4-dimethyl-

<b>Other names:</b>	2,4-Dimethyl 1-decene
<b>Inchi:</b>	InChI=1S/C12H24/c1-5-6-7-8-9-12(4)10-11(2)3/h12H,2,5-10H2,1,3-4H3
<b>InchiKey:</b>	DCJZDSLNTFHRSM-UHFFFAOYSA-N
<b>Formula:</b>	C12H24
<b>SMILES:</b>	C=C(C)CC(C)CCCCC
<b>Mol. weight [g/mol]:</b>	168.32
<b>CAS:</b>	55170-80-4

## Physical Properties

Property code	Value	Unit	Source
gf	127.01	kJ/mol	Joback Method
hf	-180.65	kJ/mol	Joback Method
hfus	20.72	kJ/mol	Joback Method
hvap	41.33	kJ/mol	Joback Method
log10ws	-4.46		Crippen Method
logp	4.559		Crippen Method
mcvol	175.640	ml/mol	McGowan Method
pc	1865.94	kPa	Joback Method
tb	470.08	K	Joback Method
tc	640.25	K	Joback Method
tf	194.28	K	Joback Method
vc	0.683	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	388.99	J/mol×K	470.08	Joback Method
cpg	405.97	J/mol×K	498.44	Joback Method
cpg	422.26	J/mol×K	526.80	Joback Method
cpg	437.87	J/mol×K	555.17	Joback Method
cpg	452.82	J/mol×K	583.53	Joback Method
cpg	467.14	J/mol×K	611.89	Joback Method
cpg	480.85	J/mol×K	640.25	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=C55170804&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C55170804&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>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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