

# (E)-2-Methyl-2-decenal

<b>Inchi:</b>	InChI=1S/C11H20O/c1-3-4-5-6-7-8-9-11(2)10-12/h9-10H,3-8H2,1-2H3/b11-9+
<b>InchiKey:</b>	QTXNUCRSDPAMSK-PKQBQFBNSA-N
<b>Formula:</b>	C11H20O
<b>SMILES:</b>	CCCCCCCC=C(C)C=O
<b>Mol. weight [g/mol]:</b>	168.28

## Physical Properties

Property code	Value	Unit	Source
gf	13.89	kJ/mol	Joback Method
hf	-248.52	kJ/mol	Joback Method
hfus	25.43	kJ/mol	Joback Method
hvap	46.84	kJ/mol	Joback Method
log10ws	-3.56		Crippen Method
logp	3.492		Crippen Method
mvol	163.120	ml/mol	McGowan Method
pc	2177.49	kPa	Joback Method
ripol	1325.00		NIST Webbook
ripol	1648.00		NIST Webbook
tb	503.78	K	Joback Method
tc	681.43	K	Joback Method
tf	236.69	K	Joback Method
vc	0.649	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	371.40	J/mol×K	503.78	Joback Method
cpg	386.20	J/mol×K	533.39	Joback Method
cpg	400.32	J/mol×K	563.00	Joback Method
cpg	413.79	J/mol×K	592.60	Joback Method
cpg	426.63	J/mol×K	622.21	Joback Method
cpg	438.88	J/mol×K	651.82	Joback Method
cpg	450.55	J/mol×K	681.43	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R434627&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R434627&amp;Units=SI</a>
<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>

# 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>rinpolar:</b>	Non-polar retention indices
<b>ripolar:</b>	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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