

# (E)-3-Decenal

<b>Inchi:</b>	InChI=1S/C10H18O/c1-2-3-4-5-6-7-8-9-10-11/h7-8,10H,2-6,9H2,1H3/b8-7+
<b>InchiKey:</b>	NRXZYQITMVTQIB-BQYQJAHWSA-N
<b>Formula:</b>	C10H18O
<b>SMILES:</b>	CCCCCCC=CCC=O
<b>Mol. weight [g/mol]:</b>	154.25

## Physical Properties

Property code	Value	Unit	Source
gf	14.02	kJ/mol	Joback Method
hf	-218.09	kJ/mol	Joback Method
hfus	24.15	kJ/mol	Joback Method
hvap	44.53	kJ/mol	Joback Method
log10ws	-3.14		Crippen Method
logp	3.102		Crippen Method
mcvol	149.030	ml/mol	McGowan Method
pc	2374.90	kPa	Joback Method
ripol	1548.00		NIST Webbook
ripol	1548.00		NIST Webbook
tb	481.02	K	Joback Method
tc	657.18	K	Joback Method
tf	239.38	K	Joback Method
vc	0.593	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	326.08	J/mol×K	481.02	Joback Method
cpg	339.86	J/mol×K	510.38	Joback Method
cpg	353.02	J/mol×K	539.74	Joback Method
cpg	365.57	J/mol×K	569.10	Joback Method
cpg	377.54	J/mol×K	598.46	Joback Method
cpg	388.96	J/mol×K	627.82	Joback Method
cpg	399.85	J/mol×K	657.18	Joback Method
dvisc	0.0048073	Paxs	239.38	Joback Method

dvisc	0.0020448	Paxs	279.65	Joback Method
dvisc	0.0010787	Paxs	319.93	Joback Method
dvisc	0.0006565	Paxs	360.20	Joback Method
dvisc	0.0004415	Paxs	400.47	Joback Method
dvisc	0.0003193	Paxs	440.75	Joback Method
dvisc	0.0002437	Paxs	481.02	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=R265253&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R265253&amp;Units=SI</a>

## Legend

<b>cp<sub>g</sub>:</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>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>ripol:</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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