

# 2-decen-4-one

<b>Inchi:</b>	InChI=1S/C10H18O/c1-3-5-6-7-9-10(11)8-4-2/h4,8H,3,5-7,9H2,1-2H3/b8-4+
<b>InchiKey:</b>	NNFCIYWJLLJEMN-XBXARRHUSA-N
<b>Formula:</b>	C10H18O
<b>SMILES:</b>	CC=CC(=O)CCCCC
<b>Mol. weight [g/mol]:</b>	154.25

## Physical Properties

Property code	Value	Unit	Source
gf	-15.38	kJ/mol	Joback Method
hf	-245.09	kJ/mol	Joback Method
hfus	23.46	kJ/mol	Joback Method
hvap	44.56	kJ/mol	Joback Method
log10ws	-3.14		Crippen Method
logp	3.102		Crippen Method
mcvol	149.030	ml/mol	McGowan Method
pc	2349.64	kPa	Joback Method
ripol	1577.00		NIST Webbook
ripol	1577.00		NIST Webbook
tb	486.23	K	Joback Method
tc	666.81	K	Joback Method
tf	247.31	K	Joback Method
vc	0.582	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	325.30	J/mol×K	486.23	Joback Method
cpg	389.65	J/mol×K	636.71	Joback Method
cpg	377.98	J/mol×K	606.62	Joback Method
cpg	365.74	J/mol×K	576.52	Joback Method
cpg	352.89	J/mol×K	546.42	Joback Method
cpg	339.42	J/mol×K	516.33	Joback Method
cpg	400.76	J/mol×K	666.81	Joback Method
dvisc	0.0002253	Paxs	486.23	Joback Method

dvisc	0.0002953	Paxs	446.41	Joback Method
dvisc	0.0004081	Paxs	406.59	Joback Method
dvisc	0.0006050	Paxs	366.77	Joback Method
dvisc	0.0009872	Paxs	326.95	Joback Method
dvisc	0.0018451	Paxs	287.13	Joback Method
dvisc	0.0042181	Paxs	247.31	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=R432572&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R432572&amp;Units=SI</a>

## Legend

<b>cpg:</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>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>	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

Latest version available from:

<https://www.chemeo.com/cid/79-746-7/2-decen-4-one.pdf>

Generated by Cheméo on 2024-04-28 02:55:43.680326213 +0000 UTC m=+16562192.600903531.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.