

# 5-ethylnon-3-en-2-one

<b>Inchi:</b>	InChI=1S/C11H20O/c1-4-6-7-11(5-2)9-8-10(3)12/h8-9,11H,4-7H2,1-3H3
<b>InchiKey:</b>	SWBGUNASIKSCCO-UHFFFAOYSA-N
<b>Formula:</b>	C11H20O
<b>SMILES:</b>	CCCCC(C=CC(C)=O)CC
<b>Mol. weight [g/mol]:</b>	168.28
<b>CAS:</b>	10137-90-3

## Physical Properties

Property code	Value	Unit	Source
gf	-9.40	kJ/mol	Joback Method
hf	-271.01	kJ/mol	Joback Method
hfus	22.52	kJ/mol	Joback Method
hvap	46.40	kJ/mol	Joback Method
log10ws	-3.32		Crippen Method
logp	3.348		Crippen Method
mvol	163.120	ml/mol	McGowan Method
pc	2161.32	kPa	Joback Method
tb	508.67	K	Joback Method
tc	691.20	K	Joback Method
tf	243.58	K	Joback Method
vc	0.631	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	371.23	J/mol×K	508.67	Joback Method
cpg	440.81	J/mol×K	660.78	Joback Method
cpg	428.22	J/mol×K	630.36	Joback Method
cpg	415.00	J/mol×K	599.94	Joback Method
cpg	401.11	J/mol×K	569.51	Joback Method
cpg	386.53	J/mol×K	539.09	Joback Method
cpg	452.78	J/mol×K	691.20	Joback Method
dvisc	0.0001998	Paxs	508.67	Joback Method
dvisc	0.0002698	Paxs	464.49	Joback Method

dvisc	0.0003881	Paxs	420.31	Joback Method
dvisc	0.0006080	Paxs	376.12	Joback Method
dvisc	0.0010735	Paxs	331.94	Joback Method
dvisc	0.0022568	Paxs	287.76	Joback Method
dvisc	0.0062124	Paxs	243.58	Joback Method

## Sources

<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=C10137903&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C10137903&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>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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>mccvol:</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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