

# (1R,4R)-(+)-isomenthone

<b>Inchi:</b>	InChI=1S/C11H22O/c1-5-7-8-10(9(3)4)11(12)6-2/h9-10H,5-8H2,1-4H3/t10-/m0/s1
<b>InchiKey:</b>	SKCLEFRJISVUAH-JTQLQIEISA-N
<b>Formula:</b>	C11H22O
<b>SMILES:</b>	CCCCC(C(=O)CC)C(C)C
<b>Mol. weight [g/mol]:</b>	170.29

## Physical Properties

Property code	Value	Unit	Source
gf	-92.06	kJ/mol	Joback Method
hf	-393.51	kJ/mol	Joback Method
hfus	18.80	kJ/mol	Joback Method
hvap	46.05	kJ/mol	Joback Method
log10ws	-3.22		Crippen Method
logp	3.428		Crippen Method
mcvol	167.420	ml/mol	McGowan Method
pc	2075.54	kPa	Joback Method
rinpol	1159.00		NIST Webbook
rinpol	1159.00		NIST Webbook
ripol	1420.00		NIST Webbook
ripol	1420.00		NIST Webbook
tb	504.07	K	Joback Method
tc	682.49	K	Joback Method
tf	233.66	K	Joback Method
vc	0.645	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	388.60	J/molxK	504.07	Joback Method
cpg	404.59	J/molxK	533.81	Joback Method
cpg	419.89	J/molxK	563.54	Joback Method
cpg	434.53	J/molxK	593.28	Joback Method
cpg	448.52	J/molxK	623.02	Joback Method
cpg	461.88	J/molxK	652.75	Joback Method

cpg	474.62	J/molxK	682.49	Joback Method
dvisc	0.0103191	Paxs	233.66	Joback Method
dvisc	0.0032535	Paxs	278.73	Joback Method
dvisc	0.0014145	Paxs	323.80	Joback Method
dvisc	0.0007538	Paxs	368.87	Joback Method
dvisc	0.0004607	Paxs	413.93	Joback Method
dvisc	0.0003102	Paxs	459.00	Joback Method
dvisc	0.0002241	Paxs	504.07	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=R283820&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R283820&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>

## 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>rinpol:</b>	Non-polar retention indices
<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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