

# 2-ethyl isomenthone

<b>Inchi:</b>	InChI=1S/C12H22O/c1-5-10-9(4)6-7-11(8(2)3)12(10)13/h8-11H,5-7H2,1-4H3/t9-,10?,11-
<b>InchiKey:</b>	VXGVKPGULBZBOZ-GLYLRLITDSA-N
<b>Formula:</b>	C12H22O
<b>SMILES:</b>	CCC1C(=O)C(C(C)C)CCC1C
<b>Mol. weight [g/mol]:</b>	182.30

## Physical Properties

Property code	Value	Unit	Source
gf	-65.84	kJ/mol	Joback Method
hf	-420.35	kJ/mol	Joback Method
hfus	16.80	kJ/mol	Joback Method
hvap	45.98	kJ/mol	Joback Method
log10ws	-3.05		Crippen Method
logp	3.284		Crippen Method
mvol	170.650	ml/mol	McGowan Method
pc	2088.84	kPa	Joback Method
rmpol	1294.00		NIST Webbook
tb	551.55	K	Joback Method
tc	762.55	K	Joback Method
tf	277.12	K	Joback Method
vc	0.639	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	438.61	J/mol×K	551.55	Joback Method
cpg	460.22	J/mol×K	586.72	Joback Method
cpg	480.83	J/mol×K	621.88	Joback Method
cpg	500.42	J/mol×K	657.05	Joback Method
cpg	518.98	J/mol×K	692.22	Joback Method
cpg	536.51	J/mol×K	727.39	Joback Method
cpg	552.99	J/mol×K	762.55	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=R411253&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R411253&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>

# 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>hvac:</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>rinpol:</b>	Non-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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