

# (E)-«alpha»-Atlantone

<b>Other names:</b>	«alpha»-(E)-Atlantone trans-«alpha»-Atlantone
<b>Inchi:</b>	InChI=1S/C15H22O/c1-11(2)9-15(16)10-13(4)14-7-5-12(3)6-8-14/h5,9-10,14H,6-8H2,1-4
<b>InchiKey:</b>	OJEFBZMKKJTKKK-JWAFFJSPSA-N
<b>Formula:</b>	C15H22O
<b>SMILES:</b>	CC(C)=CC(=O)C=C(C)C1CC=C(C)CC1
<b>Mol. weight [g/mol]:</b>	218.33
<b>CAS:</b>	108645-54-1

## Physical Properties

Property code	Value	Unit	Source
gf	134.62	kJ/mol	Joback Method
hf	-150.02	kJ/mol	Joback Method
hfus	26.66	kJ/mol	Joback Method
hvap	57.19	kJ/mol	Joback Method
log10ws	-4.60		Crippen Method
logp	4.214		Crippen Method
mcvol	200.020	ml/mol	McGowan Method
pc	1966.56	kPa	Joback Method
rinpol	1779.00		NIST Webbook
rinpol	1781.00		NIST Webbook
rinpol	1773.00		NIST Webbook
rinpol	1773.00		NIST Webbook
rinpol	1763.00		NIST Webbook
rinpol	1772.00		NIST Webbook
rinpol	1773.00		NIST Webbook
rinpol	1743.00		NIST Webbook
rinpol	1744.00		NIST Webbook
rinpol	1785.10		NIST Webbook
tb	628.24	K	Joback Method
tc	847.12	K	Joback Method
tf	291.32	K	Joback Method
vc	0.762	m3/kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	521.72	J/mol×K	628.24	Joback Method
cpg	541.09	J/mol×K	664.72	Joback Method
cpg	559.24	J/mol×K	701.20	Joback Method
cpg	576.24	J/mol×K	737.68	Joback Method
cpg	592.18	J/mol×K	774.16	Joback Method
cpg	607.10	J/mol×K	810.64	Joback Method
cpg	621.10	J/mol×K	847.12	Joback Method

## Sources

<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=C108645541&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C108645541&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>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>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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