

# exo-Tricyclo[6,2,1,0(2,6)]decan-8-one

Inchi:	InChI=1S/C10H14O/c11-10-5-6-4-9(10)8-3-1-2-7(6)8/h6-9H,1-5H2/t6?,7-,8-,9?/m0/s1
InchiKey:	OMIDXVJKZCPKEI-QXNPHUFVSA-N
Formula:	C10H14O
SMILES:	O=C1CC2CC1C1CCCC21
Mol. weight [g/mol]:	150.22

## Physical Properties

Property code	Value	Unit	Source
gf	73.17	kJ/mol	Joback Method
hf	-195.53	kJ/mol	Joback Method
hfus	14.54	kJ/mol	Joback Method
hvap	41.70	kJ/mol	Joback Method
log10ws	-2.01		Crippen Method
logp	2.012		Crippen Method
mcvol	120.750	ml/mol	McGowan Method
pc	3224.64	kPa	Joback Method
rinpol	1294.00		NIST Webbook
rinpol	1294.00		NIST Webbook
ripol	1825.00		NIST Webbook
tb	515.84	K	Joback Method
tc	746.98	K	Joback Method
tf	316.74	K	Joback Method
vc	0.465	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	310.43	J/molxK	515.84	Joback Method
cpg	330.08	J/molxK	554.36	Joback Method
cpg	348.41	J/molxK	592.89	Joback Method
cpg	365.50	J/molxK	631.41	Joback Method
cpg	381.43	J/molxK	669.93	Joback Method
cpg	396.28	J/molxK	708.46	Joback Method
cpg	410.13	J/molxK	746.98	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R386419&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R386419&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>
<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>

# 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>rinpolar:</b>	Non-polar retention indices
<b>ripolar:</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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