

# Tricyclo[3.2.1.0<sup>2,4</sup>]octan-8-one,(1 «alpha»,2«alpha»

Inchi:	InChI=1S/C8H12/c1-2-6-3-5(1)7-4-8(6)7/h5-8H,1-4H2/t5?,6?,7-,8+
InchiKey:	PSZPCAFRANQPLS-HYNHDVCUSA-N
Formula:	C8H10O
SMILES:	C1CC2CC1C1CC21
Mol. weight [g/mol]:	122.16
CAS:	14224-86-3

## Physical Properties

Property code	Value	Unit	Source
gf	203.12	kJ/mol	Joback Method
hf	-4.23	kJ/mol	Joback Method
hfus	14.05	kJ/mol	Joback Method
hvap	32.66	kJ/mol	Joback Method
ie	8.80 ± 0.10	eV	NIST Webbook
log10ws	-1.89		Crippen Method
logp	2.052		Crippen Method
mcvol	91.000	ml/mol	McGowan Method
pc	3655.35	kPa	Joback Method
tb	393.72	K	Joback Method
tc	594.92	K	Joback Method
tf	233.02	K	Joback Method
vc	0.361	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	186.89	J/molxK	393.72	Joback Method
cpg	262.25	J/molxK	561.38	Joback Method
cpg	249.40	J/molxK	527.85	Joback Method
cpg	235.52	J/molxK	494.32	Joback Method
cpg	220.54	J/molxK	460.79	Joback Method
cpg	204.36	J/molxK	427.25	Joback Method
cpg	274.16	J/molxK	594.92	Joback Method
dvisc	0.0008202	Paxs	393.72	Joback Method

dvisc	0.0006884	Paxs	366.94	Joback Method
dvisc	0.0005621	Paxs	340.15	Joback Method
dvisc	0.0004433	Paxs	313.37	Joback Method
dvisc	0.0003344	Paxs	286.59	Joback Method
dvisc	0.0002381	Paxs	259.80	Joback Method
dvisc	0.0001567	Paxs	233.02	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=C14224863&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C14224863&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>

## Legend

<b>cp<sub>g</sub>:</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>ie:</b>	Ionization energy
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mcvol:</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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