

# (5S,6R)-5,6-O-Isopropylidene-azepane-2-one

<b>Inchi:</b>	InChI=1S/C9H15NO3/c1-9(2)12-6-3-4-8(11)10-5-7(6)13-9/h6-7H,3-5H2,1-2H3,(H,10,11)
<b>InchiKey:</b>	UDINENAKQQNEQK-RQJHMYQMSA-N
<b>Formula:</b>	C9H15NO3
<b>SMILES:</b>	CC1(C)OC2CCC(=O)NCC2O1
<b>Mol. weight [g/mol]:</b>	185.22

## Physical Properties

Property code	Value	Unit	Source
gf	-122.32	kJ/mol	Joback Method
hf	-477.12	kJ/mol	Joback Method
hfus	26.77	kJ/mol	Joback Method
hvap	54.71	kJ/mol	Joback Method
log10ws	-1.35		Crippen Method
logp	0.417		Crippen Method
mcvol	139.240	ml/mol	McGowan Method
pc	3594.25	kPa	Joback Method
rinsol	1614.00		NIST Webbook
tb	601.72	K	Joback Method
tc	853.77	K	Joback Method
tf	459.04	K	Joback Method
vc	0.504	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	387.68	J/mol×K	601.72	Joback Method
cpg	406.57	J/mol×K	643.73	Joback Method
cpg	424.32	J/mol×K	685.74	Joback Method
cpg	441.06	J/mol×K	727.74	Joback Method
cpg	456.92	J/mol×K	769.75	Joback Method
cpg	472.01	J/mol×K	811.76	Joback Method
cpg	486.47	J/mol×K	853.77	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=R500333&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R500333&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>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>mccol:</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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