

# trans-2,6-Dimethyl-heptan-5-olide

<b>Inchi:</b>	InChI=1S/C9H16O2/c1-6(2)4-8-5-7(3)9(10)11-8/h6-8H,4-5H2,1-3H3/t7-,8-/m1/s1
<b>InchiKey:</b>	SYDVLDZWCVEHRQ-HTQZYQBOSA-N
<b>Formula:</b>	C9H16O2
<b>SMILES:</b>	CC(C)CC1CC(C)C(=O)O1
<b>Mol. weight [g/mol]:</b>	156.22

## Physical Properties

Property code	Value	Unit	Source
gf	-157.41	kJ/mol	Joback Method
hf	-463.93	kJ/mol	Joback Method
hfus	18.04	kJ/mol	Joback Method
hvap	43.95	kJ/mol	Joback Method
log10ws	-1.98		Crippen Method
logp	1.984		Crippen Method
mcvol	134.250	ml/mol	McGowan Method
pc	2767.17	kPa	Joback Method
ripol	1856.00		NIST Webbook
ripol	1856.00		NIST Webbook
tb	510.26	K	Joback Method
tc	722.36	K	Joback Method
tf	277.64	K	Joback Method
vc	0.501	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	324.05	J/molxK	510.26	Joback Method
cpg	341.28	J/molxK	545.61	Joback Method
cpg	357.73	J/molxK	580.96	Joback Method
cpg	373.41	J/molxK	616.31	Joback Method
cpg	388.31	J/molxK	651.66	Joback Method
cpg	402.43	J/molxK	687.01	Joback Method
cpg	415.77	J/molxK	722.36	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R326328&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R326328&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>hvp:</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>ripl:</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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