

# 3-Hydroxyperillaldehyde

<b>Inchi:</b>	InChI=1S/C10H14O2/c1-7(2)9-4-3-8(6-11)5-10(9)12/h5-6,9-10,12H,1,3-4H2,2H3
<b>InchiKey:</b>	CGYLWHVYZDSTDR-UHFFFAOYSA-N
<b>Formula:</b>	C10H14O2
<b>SMILES:</b>	<chem>C=C(C)C1CCC(C=O)=CC1O</chem>
<b>Mol. weight [g/mol]:</b>	166.22

## Physical Properties

Property code	Value	Unit	Source
gf	-86.66	kJ/mol	Joback Method
hf	-291.61	kJ/mol	Joback Method
hfus	19.18	kJ/mol	Joback Method
hvap	61.74	kJ/mol	Joback Method
log10ws	-2.02		Crippen Method
logp	1.459		Crippen Method
mcvol	139.740	ml/mol	McGowan Method
pc	3184.73	kPa	Joback Method
rinpola	1352.00		NIST Webbook
rinpola	1352.00		NIST Webbook
tb	584.62	K	Joback Method
tc	783.90	K	Joback Method
tf	305.98	K	Joback Method
vc	0.531	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	352.59	J/mol×K	584.62	Joback Method
cpg	366.11	J/mol×K	617.83	Joback Method
cpg	378.88	J/mol×K	651.05	Joback Method
cpg	390.93	J/mol×K	684.26	Joback Method
cpg	402.27	J/mol×K	717.47	Joback Method
cpg	412.94	J/mol×K	750.69	Joback Method
cpg	422.94	J/mol×K	783.90	Joback Method

# Sources

<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=R514793&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R514793&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>

# 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>h vap:</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>r in pol:</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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