

# 7-hydroxy-1,8-cineole

<b>Inchi:</b>	InChI=1S/C10H18O2/c1-9(2)8-3-5-10(7-11,12-9)6-4-8/h8,11H,3-7H2,1-2H3/t8?,10-
<b>InchiKey:</b>	VQVMQGQKIHRZQF-GDGYMVOYSA-N
<b>Formula:</b>	C10H18O2
<b>SMILES:</b>	CC1(C)OC2(CO)CCC1CC2
<b>Mol. weight [g/mol]:</b>	170.25

## Physical Properties

Property code	Value	Unit	Source
gf	-111.01	kJ/mol	Joback Method
hf	-390.54	kJ/mol	Joback Method
hfus	14.27	kJ/mol	Joback Method
hvap	56.60	kJ/mol	Joback Method
log10ws	-2.13		Crippen Method
logp	1.717		Crippen Method
mcvol	141.780	ml/mol	McGowan Method
pc	3348.98	kPa	Joback Method
rinsol	1263.00		NIST Webbook
tb	565.16	K	Joback Method
tc	771.88	K	Joback Method
tf	362.25	K	Joback Method
vc	0.528	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	385.13	J/mol×K	565.16	Joback Method
cpg	400.59	J/mol×K	599.61	Joback Method
cpg	415.03	J/mol×K	634.07	Joback Method
cpg	428.66	J/mol×K	668.52	Joback Method
cpg	441.67	J/mol×K	702.98	Joback Method
cpg	454.27	J/mol×K	737.43	Joback Method
cpg	466.66	J/mol×K	771.88	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=R404225&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R404225&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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