

# 2«beta»-hydroxy-trans-decalin-6-one

<b>Inchi:</b>	InChI=1S/C10H16O2/c11-9-3-1-7-5-10(12)4-2-8(7)6-9/h7-9,11H,1-6H2/t7?,8?,9-/m1/s1
<b>InchiKey:</b>	GRGGRJRDSLLNJL-AMDVSUOASA-N
<b>Formula:</b>	C10H16O2
<b>SMILES:</b>	O=C1CCC2CC(O)CCC2C1
<b>Mol. weight [g/mol]:</b>	168.23

## Physical Properties

Property code	Value	Unit	Source
gf	-160.70	kJ/mol	Joback Method
hf	-439.04	kJ/mol	Joback Method
hfus	14.19	kJ/mol	Joback Method
hvap	58.98	kJ/mol	Joback Method
log10ws	-1.97		Crippen Method
logp	1.517		Crippen Method
mcvol	137.480	ml/mol	McGowan Method
pc	3364.54	kPa	Joback Method
rinpol	1506.00		NIST Webbook
ripol	2620.00		NIST Webbook
tb	614.09	K	Joback Method
tc	833.81	K	Joback Method
tf	349.06	K	Joback Method
vc	0.502	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	391.23	J/molxK	614.09	Joback Method
cpg	408.91	J/molxK	650.71	Joback Method
cpg	425.53	J/molxK	687.33	Joback Method
cpg	441.09	J/molxK	723.95	Joback Method
cpg	455.62	J/molxK	760.57	Joback Method
cpg	469.14	J/molxK	797.19	Joback Method
cpg	481.65	J/molxK	833.81	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R136308&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R136308&amp;Units=SI</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>hvap:</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>rinpolar:</b>	Non-polar retention indices
<b>ripolar:</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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