

# 2«beta»-hydroxy-6«alpha»-chloro-trans-decalin

Inchi:	InChI=1S/C10H17ClO/c11-9-3-1-8-6-10(12)4-2-7(8)5-9/h7-10,12H,1-6H2/t7?,8?,9-,10+/m
InchiKey:	RXFQKXWSWHBTLP-HORUIINNSA-N
Formula:	C10H17ClO
SMILES:	OC1CCC2CC(Cl)CCC2C1
Mol. weight [g/mol]:	188.69

## Physical Properties

Property code	Value	Unit	Source
gf	-57.75	kJ/mol	Joback Method
hf	-337.42	kJ/mol	Joback Method
hfus	19.95	kJ/mol	Joback Method
hvap	58.81	kJ/mol	Joback Method
log10ws	-2.95		Crippen Method
logp	2.555		Crippen Method
mcvol	148.150	ml/mol	McGowan Method
pc	2989.32	kPa	Joback Method
rinpol	1505.00		NIST Webbook
rinpol	1505.00		NIST Webbook
ripol	2404.00		NIST Webbook
ripol	2404.00		NIST Webbook
tb	579.03	K	Joback Method
tc	789.70	K	Joback Method
tf	306.52	K	Joback Method
vc	0.543	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	389.86	J/molxK	579.03	Joback Method
cpg	407.81	J/molxK	614.14	Joback Method
cpg	424.68	J/molxK	649.25	Joback Method
cpg	440.50	J/molxK	684.37	Joback Method
cpg	455.31	J/molxK	719.48	Joback Method
cpg	469.15	J/molxK	754.59	Joback Method

cpg	482.06	J/mol×K	789.70	Joback Method
dvisc	0.0104547	Paxs	306.52	Joback Method
dvisc	0.0036965	Paxs	351.94	Joback Method
dvisc	0.0016576	Paxs	397.36	Joback Method
dvisc	0.0008763	Paxs	442.77	Joback Method
dvisc	0.0005216	Paxs	488.19	Joback Method
dvisc	0.0003391	Paxs	533.61	Joback Method
dvisc	0.0002359	Paxs	579.03	Joback Method

## Sources

<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=R136195&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R136195&amp;Units=SI</a>
<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>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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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