

# Cyclopentanol, 1,2-dimethyl-3-(1-methylethenyl)-, [1R-(1«alpha»,2«alpha»,3«alpha»)]-

Other names:	Cyclopentanol, 3-isopropenyl-1,2-dimethyl-, (1R,2S,3S)-(-)- PinoPC
Inchi:	3-Isopropenyl-1,2-dimethylcyclopentanol, (1R,2S,3S)- Cyclopentanol, 1,2-dimethyl-3-(1-methylethenyl)-, (1R,2S,3S)- InChI=1S/C10H18O/c1-7(2)9-5-6-10(4,11)8(9)3/h8-9,11H,1,5-6H2,2-4H3
InchiKey:	ZRVPDCMGGOSDKG-UHFFFAOYSA-N
Formula:	C10H18O
SMILES:	C=C(C)C1CCC(C)(O)C1C
Mol. weight [g/mol]:	154.25
CAS:	4028-60-8

## Physical Properties

Property code	Value	Unit	Source
gf	-8.57	kJ/mol	Joback Method
hf	-251.28	kJ/mol	Joback Method
hfus	12.93	kJ/mol	Joback Method
hvap	52.43	kJ/mol	Joback Method
log10ws	-2.65		Crippen Method
logp	2.360		Crippen Method
mvol	142.470	ml/mol	McGowan Method
pc	2829.33	kPa	Joback Method
rinpol	1155.00		NIST Webbook
rinpol	1155.00		NIST Webbook
tb	523.12	K	Joback Method
tc	716.53	K	Joback Method
tf	273.88	K	Joback Method
vc	0.533	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	349.90	J/molxK	523.12	Joback Method
cpg	365.68	J/molxK	555.35	Joback Method
cpg	380.58	J/molxK	587.59	Joback Method

cpg	394.67	J/mol×K	619.82	Joback Method
cpg	408.03	J/mol×K	652.06	Joback Method
cpg	420.76	J/mol×K	684.29	Joback Method
cpg	432.93	J/mol×K	716.53	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=C4028608&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4028608&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>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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