

# Bicyclo[3.1.1]heptan-3-ol, 2,6,6-trimethyl-, (1«alpha»,2«beta»,3«alpha»,5«alpha»)-

Other names:	3-Pinanol, stereoisomer Isopinocampheol 2,6,6-Trimethylbicyclo[3.1.1]heptan-3-ol-, (1R,2R,3R,5S)-rel- (1«alpha»,2«beta»,3«alpha»,5«alpha»)-2,6,6-trimethylbicyclo[3.1.1]heptan-3-ol
Inchi:	InChI=1S/C10H18O/c1-6-8-4-7(5-9(6)11)10(8,2)3/h6-9,11H,4-5H2,1-3H3
InchiKey:	REPV LJRCJUVQFA-UHFFFAOYSA-N
Formula:	C10H18O
SMILES:	CC1C(O)CC2CC1C2(C)C
Mol. weight [g/mol]:	154.25
CAS:	27779-29-9

## Physical Properties

Property code	Value	Unit	Source
gf	-22.72	kJ/mol	Joback Method
hf	-308.30	kJ/mol	Joback Method
hfus	16.83	kJ/mol	Joback Method
hvap	52.45	kJ/mol	Joback Method
log10ws	-2.21		Crippen Method
logp	2.049		Crippen Method
mcvol	135.910	ml/mol	McGowan Method
pc	2906.11	kPa	Joback Method
rinpol	1168.00		NIST Webbook
rinpol	1180.00		NIST Webbook
rinpol	1168.00		NIST Webbook
rinpol	1170.00		NIST Webbook
rinpol	1190.00		NIST Webbook
rinpol	1178.00		NIST Webbook
rinpol	1162.00		NIST Webbook
rinpol	1120.00		NIST Webbook
rinpol	1190.00		NIST Webbook
rinpol	1120.00		NIST Webbook
ripol	1676.00		NIST Webbook
ripol	1676.00		NIST Webbook
ripol	1716.00		NIST Webbook
ripol	1703.00		NIST Webbook
tb	492.20	K	NIST Webbook
tc	717.42	K	Joback Method

tf	306.82	K	Joback Method
vc	0.515	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	355.48	J/mol×K	524.36	Joback Method
cpg	372.00	J/mol×K	556.54	Joback Method
cpg	387.53	J/mol×K	588.71	Joback Method
cpg	402.17	J/mol×K	620.89	Joback Method
cpg	416.03	J/mol×K	653.07	Joback Method
cpg	429.20	J/mol×K	685.24	Joback Method
cpg	441.78	J/mol×K	717.42	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C27779299&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C27779299&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>
<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>

## 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>ripol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices

**tb:** Normal Boiling Point Temperature  
**tc:** Critical Temperature  
**tf:** Normal melting (fusion) point  
**vc:** Critical Volume

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