

# epi-Borneol

**Other names:**

1,7,7-trimethyl-exo-bicyclo[2.2.1]heptan-2-ol  
bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimethyl-, (1R,2R,4R)-rel-  
exo-isoborneol  
exo-isobornyl alcohol

**Inchi:** InChI=1S/C10H18O/c1-9(2)7-4-5-10(9,3)8(11)6-7/h7-8,11H,4-6H2,1-3H3/t7-,8-,10+/m1/s**InchiKey:** DTGKSKDOIYIVQL-MRTMQBJTSA-N**Formula:** C10H18O**SMILES:** CC1(C)C2CCC1(C)C(O)C2**Mol. weight [g/mol]:** 154.25

## Physical Properties

Property code	Value	Unit	Source
gf	-20.50	kJ/mol	Joback Method
hf	-272.72	kJ/mol	Joback Method
hfus	9.46	kJ/mol	Joback Method
hvap	51.61	kJ/mol	Joback Method
log10ws	-2.45		Crippen Method
logp	2.194		Crippen Method
mcvol	135.910	ml/mol	McGowan Method
pc	3166.83	kPa	Joback Method
rinsol	1164.00		NIST Webbook
tb	529.27	K	Joback Method
tc	730.21	K	Joback Method
tf	334.96	K	Joback Method
tt	482.70	K	Determination and Correlation of Solubility of Borneol, Camphor, and Isoborneol in Different Solvents
vc	0.514	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	354.30	J/mol×K	529.27	Joback Method

cpg	370.25	J/mol×K	562.76	Joback Method
cpg	385.05	J/mol×K	596.25	Joback Method
cpg	398.92	J/mol×K	629.74	Joback Method
cpg	412.02	J/mol×K	663.23	Joback Method
cpg	424.55	J/mol×K	696.72	Joback Method
cpg	436.70	J/mol×K	730.21	Joback Method

## Sources

**Determination and Correlation of Solubility of Borneol, Camphor, and Isoborneol in Different Solvents:**

<https://www.doi.org/10.1021/acs.jced.9b00045>

**McGowan Method:**

[https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

**NIST Webbook:**

<http://link.springer.com/article/10.1007/BF02311772>

**Crippen Method:**

<http://webbook.nist.gov/cgi/cbook.cgi?ID=R324862&Units=SI>

**Crippen Method:**

<http://pubs.acs.org/doi/abs/10.1021/ci990307l>

[https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

## 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>tt:</b>	Triple Point Temperature
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/43-132-7/epi-Borneol.pdf>

Generated by Cheméo on 2024-04-26 03:59:43.568018132 +0000 UTC m=+16393232.488595454.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.