

# Bicyclo[2.2.1]hept-2-ene, 1,7,7-trimethyl-

<b>Other names:</b>	2-Bornene Bornylene 1,7,7-Trimethyl-2-norbornene 1,7,7-Trimethylbicyclo[2.2.1]hept-2-ene 1,7,7-Trimethylnorbornene 1,7,7-Trimethyl-bicyclo[2.2.1]hepten-2-ene bornylene (2-bornene)
<b>Inchi:</b>	InChI=1S/C10H16/c1-9(2)8-4-6-10(9,3)7-5-8/h4,6,8H,5,7H2,1-3H3
<b>InchiKey:</b>	KUKRLSJNTMLPPK-UHFFFAOYSA-N
<b>Formula:</b>	C10H16
<b>SMILES:</b>	CC12C=CC(CC1)C2(C)C
<b>Mol. weight [g/mol]:</b>	136.23
<b>CAS:</b>	464-17-5

## Physical Properties

Property code	Value	Unit	Source
gf	153.99	kJ/mol	Joback Method
hf	-42.37	kJ/mol	Joback Method
hfus	5.52	kJ/mol	Joback Method
hvap	35.53	kJ/mol	Joback Method
log10ws	-2.93		Crippen Method
logp	2.999		Crippen Method
mcvol	125.740	ml/mol	McGowan Method
pc	3086.42	kPa	Joback Method
rinpol	907.00		NIST Webbook
rinpol	908.00		NIST Webbook
rinpol	907.00		NIST Webbook
rinpol	896.00		NIST Webbook
rinpol	908.90		NIST Webbook
tb	440.92	K	Joback Method
tc	658.12	K	Joback Method
tf	279.14	K	Joback Method
vc	0.482	m3/kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	273.54	J/mol×K	440.92	Joback Method
cpg	292.70	J/mol×K	477.12	Joback Method
cpg	310.04	J/mol×K	513.32	Joback Method
cpg	325.79	J/mol×K	549.52	Joback Method
cpg	340.20	J/mol×K	585.72	Joback Method
cpg	353.50	J/mol×K	621.92	Joback Method
cpg	365.95	J/mol×K	658.12	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=C464175&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C464175&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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

Latest version available from:

<https://www.cheméo.com/cid/63-866-1/Bicyclo-2-2-1-hept-2-ene-1-7-7-trimethyl.pdf>

Generated by Cheméo on 2024-04-23 20:26:00.737237515 +0000 UTC m=+16193209.657814830.

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