

Bicyclo[2.2.1]heptan-2-ol, 2,3,3-trimethyl-

Other names:	Camphene hydrate Camphenilanol, 3-methyl- 3-Methylcamphenilol 2-Norbornanol 3-Methylcamphenilanol
Inchi:	InChI=1S/C10H18O/c1-9(2)7-4-5-8(6-7)10(9,3)11/h7-8,11H,4-6H2,1-3H3
InchiKey:	PXRCIOIWVGAZEP-UHFFFAOYSA-N
Formula:	C10H18O
SMILES:	CC1(C)C2CCC(C2)C1(C)O
Mol. weight [g/mol]:	154.25
CAS:	465-31-6

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
rinpol	1148.00		NIST Webbook
rinpol	1142.00		NIST Webbook
rinpol	1148.00		NIST Webbook
rinpol	1148.00		NIST Webbook
rinpol	1150.00		NIST Webbook
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ripol	1591.00		NIST Webbook
ripol	1602.00		NIST Webbook
ripol	1545.00		NIST Webbook
ripol	1596.00		NIST Webbook
ripol	1589.00		NIST Webbook
ripol	1591.00		NIST Webbook
ripol	1518.00		NIST Webbook
tb	529.27	K	Joback Method
tc	730.21	K	Joback Method
tf	334.96	K	Joback Method
vc	0.514	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	354.30	J/molxK	529.27	Joback Method
cpg	370.25	J/molxK	562.76	Joback Method
cpg	385.05	J/molxK	596.25	Joback Method
cpg	398.92	J/molxK	629.74	Joback Method
cpg	412.02	J/molxK	663.23	Joback Method
cpg	424.55	J/molxK	696.72	Joback Method
cpg	436.70	J/molxK	730.21	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C465316&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpolar:	Non-polar retention indices
ripolar:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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