2-Bornanol, 2-methyl-

Other names: 2-Norbornanol, 1,2,7,7-tetramethyl-
Inchi: InChI=1S/C11H20O/c1-9(2)8-5-6-10(9,3)11(4,12)7-8/h8,12H,5-7H2,1-4H3/t8?,10?,11-/m
InchiKey: LFYXNXGVLGKVCJ-RFBVYIQQSA-N
Formula: C11H20O
SMILES: CC1(O)CC2CCC1(C)C2(C)C
Mol. weight [g/mol]: 168.28
CAS: 91278-70-5

Physical Properties

Property code	Value	Unit	Source
gf	-17.57	kJ/mol	Joback Method
hf	-278.12	kJ/mol	Joback Method
hfus	5.75	kJ/mol	Joback Method
hvap	52.69	kJ/mol	Joback Method
log10ws	-2.87		Crippen Method
logp	2.584		Crippen Method
mcvol	150.000	ml/mol	McGowan Method
pc	2992.59	kPa	Joback Method
tb	552.39	K	Joback Method
tc	758.28	K	Joback Method
tf	370.13	K	Joback Method
vc	0.569	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	401.39	J/mol×K	552.39	Joback Method
cpg	417.57	J/mol×K	586.70	Joback Method
cpg	432.61	J/mol×K	621.02	Joback Method
cpg	446.78	J/mol×K	655.33	Joback Method
cpg	460.35	J/mol×K	689.65	Joback Method
cpg	473.60	J/mol×K	723.96	Joback Method
cpg	486.80	J/mol×K	758.28	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
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=C91278705&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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