6-Camphenone

Inchi: InChI=1S/C10H14O/c1-6-7-4-8(9(11)5-7)10(6,2)3/h7-8H,1,4-5H2,2-3H3
InchiKey: ANYFZDNBRIMCPS-UHFFFAOYSA-N
Formula: C10H14O
SMILES: C=C1C2CC(=O)C(C2)C1(C)C
Mol. weight [g/mol]: 150.22

Physical Properties

Property code	Value	Unit	Source
gf	60.01	kJ/mol	Joback Method
hf	-168.85	kJ/mol	Joback Method
hfus	8.95	kJ/mol	Joback Method
hvap	40.80	kJ/mol	Joback Method
log10ws	-2.21		Crippen Method
logp	2.178		Crippen Method
mcvol	127.310	ml/mol	McGowan Method
pc	2995.87	kPa	Joback Method
rinpol	1093.00		NIST Webbook
rinpol	1082.00		NIST Webbook
rinpol	1095.00		NIST Webbook
rinpol	1093.00		NIST Webbook
rinpol	1066.00		NIST Webbook
rinpol	1098.00		NIST Webbook
tb	508.50	K	Joback Method
tc	733.65	K	Joback Method
tf	336.38	K	Joback Method
vc	0.489	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	306.45	J/mol×K	508.50	Joback Method
cpg	323.35	J/mol×K	546.02	Joback Method
cpg	339.14	J/mol×K	583.55	Joback Method
cpg	353.96	J/mol×K	621.07	Joback Method

cpg	367.92	J/mol×K	658.60	Joback Method
cpg	381.17	J/mol×K	696.12	Joback Method
cpg	393.81	J/mol×K	733.65	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=R284016&Units=SI

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume