

# I-camphoronic acid

<b>Inchi:</b>	InChI=1S/C9H14O6/c1-8(2,6(12)13)9(3,7(14)15)4-5(10)11/h4H2,1-3H3,(H,10,11)(H,12,13)
<b>InchiKey:</b>	MJCJFUJXVGIUOD-UHFFFAOYSA-N
<b>Formula:</b>	C9H14O6
<b>SMILES:</b>	CC(C)(C(=O)O)C(C)(CC(=O)O)C(=O)O
<b>Mol. weight [g/mol]:</b>	218.21

## Physical Properties

Property code	Value	Unit	Source
gf	-766.64	kJ/mol	Joback Method
hf	-1041.02	kJ/mol	Joback Method
hfus	21.30	kJ/mol	Joback Method
hvap	103.31	kJ/mol	Joback Method
log10ws	-0.29		Aqueous Solubility Prediction Method
logp	0.663		Crippen Method
mcvol	159.990	ml/mol	McGowan Method
pc	4010.84	kPa	Joback Method
tb	837.01	K	Joback Method
tc	1031.21	K	Joback Method
tf	528.28	K	Joback Method
vc	0.593	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	478.50	J/molxK	837.01	Joback Method
cpg	485.48	J/molxK	869.38	Joback Method
cpg	492.03	J/molxK	901.74	Joback Method
cpg	498.17	J/molxK	934.11	Joback Method
cpg	503.96	J/molxK	966.47	Joback Method
cpg	509.46	J/molxK	998.84	Joback Method
cpg	514.70	J/molxK	1031.21	Joback Method
dvisc	0.0002007	Paxs	528.28	Joback Method
dvisc	0.0000566	Paxs	579.74	Joback Method

dvisc	0.0000196	Paxs	631.19	Joback Method
dvisc	0.0000080	Paxs	682.64	Joback Method
dvisc	0.0000037	Paxs	734.10	Joback Method
dvisc	0.0000019	Paxs	785.56	Joback Method
dvisc	0.0000010	Paxs	837.01	Joback Method

## Sources

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

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

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

**Aqueous Solubility Prediction Method:** <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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