

# Perillic acid

<b>Other names:</b>	4-isopropenylcyclohex-1-enecarboxylic acid
<b>Inchi:</b>	InChI=1S/C10H14O2/c1-7(2)8-3-5-9(6-4-8)10(11)12/h5,8H,1,3-4,6H2,2H3,(H,11,12)
<b>InchiKey:</b>	CDSMSBUVCWHORP-UHFFFAOYSA-N
<b>Formula:</b>	C10H14O2
<b>SMILES:</b>	<chem>C=C(C)C1CC=C(C(=O)O)CC1</chem>
<b>Mol. weight [g/mol]:</b>	166.22
<b>CAS:</b>	7694-45-3

## Physical Properties

Property code	Value	Unit	Source
gf	-108.35	kJ/mol	Joback Method
hf	-298.27	kJ/mol	Joback Method
hfus	17.42	kJ/mol	Joback Method
hvap	62.07	kJ/mol	Joback Method
log10ws	-2.47		Crippen Method
logp	2.374		Crippen Method
mcvol	139.740	ml/mol	McGowan Method
pc	3265.31	kPa	Joback Method
rinpol	1467.00		NIST Webbook
rinpol	1500.00		NIST Webbook
rinpol	1467.00		NIST Webbook
tb	594.50	K	Joback Method
tc	798.35	K	Joback Method
tf	318.15	K	Joback Method
vc	0.521	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	350.00	J/molxK	594.50	Joback Method
cpg	363.40	J/molxK	628.48	Joback Method
cpg	376.02	J/molxK	662.45	Joback Method
cpg	387.89	J/molxK	696.43	Joback Method
cpg	399.02	J/molxK	730.40	Joback Method

cpg	409.46	J/mol×K	764.38	Joback Method
cpg	419.23	J/mol×K	798.35	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<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=C7694453&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C7694453&amp;Units=SI</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>hvac:</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

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