

# isopentadecanoic acid

<b>Inchi:</b>	InChI=1S/C15H30O2/c1-14(2)12-10-8-6-4-3-5-7-9-11-13-15(16)17/h14H,3-13H2,1-2H3,(
<b>InchiKey:</b>	ZOCYQVNGROEVLU-UHFFFAOYSA-N
<b>Formula:</b>	C15H30O2
<b>SMILES:</b>	CC(C)CCCCCCCCCCCC(=O)O
<b>Mol. weight [g/mol]:</b>	242.40
<b>CAS:</b>	50973-09-6

## Physical Properties

Property code	Value	Unit	Source
gf	-192.76	kJ/mol	Joback Method
hf	-623.02	kJ/mol	Joback Method
hfus	36.77	kJ/mol	Joback Method
hvap	72.02	kJ/mol	Joback Method
log10ws	-4.96		Crippen Method
logp	5.018		Crippen Method
mvol	229.650	ml/mol	McGowan Method
pc	1606.42	kPa	Joback Method
rinpol	1842.00		NIST Webbook
rinpol	1856.00		NIST Webbook
tb	688.21	K	Joback Method
tc	857.15	K	Joback Method
tf	354.56	K	Joback Method
vc	0.894	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	664.10	J/mol×K	688.21	Joback Method
cpg	679.73	J/mol×K	716.37	Joback Method
cpg	694.65	J/mol×K	744.52	Joback Method
cpg	708.88	J/mol×K	772.68	Joback Method
cpg	722.45	J/mol×K	800.84	Joback Method
cpg	735.38	J/mol×K	828.99	Joback Method
cpg	747.69	J/mol×K	857.15	Joback Method

dvisc	0.0064199	Paxs	354.56	Joback Method
dvisc	0.0015442	Paxs	410.17	Joback Method
dvisc	0.0005220	Paxs	465.78	Joback Method
dvisc	0.0002224	Paxs	521.38	Joback Method
dvisc	0.0001117	Paxs	576.99	Joback Method
dvisc	0.0000633	Paxs	632.60	Joback Method
dvisc	0.0000393	Paxs	688.21	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=C50973096&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C50973096&amp;Units=SI</a>

## 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>mvol:</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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