

# Propionic acid, 3-iodo-, pentadecyl ester

<b>Inchi:</b>	InChI=1S/C18H35IO2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-17-21-18(20)15-16-19/h2-17H2
<b>InchiKey:</b>	LMLSJCYHMQXXQW-UHFFFAOYSA-N
<b>Formula:</b>	C18H35IO2
<b>SMILES:</b>	CCCCCCCCCCCCCCCCOC(=O)CCI
<b>Mol. weight [g/mol]:</b>	410.37

## Physical Properties

Property code	Value	Unit	Source
gf	-75.12	kJ/mol	Joback Method
hf	-582.78	kJ/mol	Joback Method
hfus	49.57	kJ/mol	Joback Method
hvap	74.19	kJ/mol	Joback Method
log10ws	-7.17		Crippen Method
logp	6.446		Crippen Method
mcvol	297.740	ml/mol	McGowan Method
pc	1171.22	kPa	Joback Method
rinsol	2471.00		NIST Webbook
tb	780.67	K	Joback Method
tc	968.69	K	Joback Method
tf	422.84	K	Joback Method
vc	1.155	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	860.62	J/molxK	780.67	Joback Method
cpg	878.09	J/molxK	812.01	Joback Method
cpg	894.64	J/molxK	843.34	Joback Method
cpg	910.29	J/molxK	874.68	Joback Method
cpg	925.09	J/molxK	906.01	Joback Method
cpg	939.06	J/molxK	937.35	Joback Method
cpg	952.24	J/molxK	968.69	Joback Method
dvisc	0.0013687	Paxs	422.84	Joback Method
dvisc	0.0006164	Paxs	482.48	Joback Method

dvisc	0.0003308	Paxs	542.12	Joback Method
dvisc	0.0002009	Paxs	601.75	Joback Method
dvisc	0.0001335	Paxs	661.39	Joback Method
dvisc	0.0000949	Paxs	721.03	Joback Method
dvisc	0.0000710	Paxs	780.67	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=U406246&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406246&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>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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