

# Pentanoic acid, 4-methyl, 2-iodoethyl ester

<b>Inchi:</b>	InChI=1S/C8H15IO2/c1-7(2)3-4-8(10)11-6-5-9/h7H,3-6H2,1-2H3
<b>InchiKey:</b>	DWAAMYINEBPDQR-UHFFFAOYSA-N
<b>Formula:</b>	C8H15IO2
<b>SMILES:</b>	CC(C)CCC(=O)OCCI
<b>Mol. weight [g/mol]:</b>	270.11

## Physical Properties

Property code	Value	Unit	Source
gf	-161.76	kJ/mol	Joback Method
hf	-381.66	kJ/mol	Joback Method
hfus	20.15	kJ/mol	Joback Method
hvap	51.54	kJ/mol	Joback Method
log10ws	-2.74		Crippen Method
logp	2.401		Crippen Method
mcvol	156.840	ml/mol	McGowan Method
pc	2619.09	kPa	Joback Method
rinpol	1313.00		NIST Webbook
rinpol	1313.00		NIST Webbook
tb	551.43	K	Joback Method
tc	759.14	K	Joback Method
tf	295.14	K	Joback Method
vc	0.590	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	332.76	J/molxK	551.43	Joback Method
cpg	388.73	J/molxK	724.52	Joback Method
cpg	378.73	J/molxK	689.90	Joback Method
cpg	368.15	J/molxK	655.29	Joback Method
cpg	356.97	J/molxK	620.67	Joback Method
cpg	345.18	J/molxK	586.05	Joback Method
cpg	398.16	J/molxK	759.14	Joback Method
dvisc	0.0002485	Paxs	551.43	Joback Method

dvisc	0.0003281	Paxs	508.72	Joback Method
dvisc	0.0004559	Paxs	466.00	Joback Method
dvisc	0.0006768	Paxs	423.29	Joback Method
dvisc	0.0010982	Paxs	380.57	Joback Method
dvisc	0.0020138	Paxs	337.86	Joback Method
dvisc	0.0044013	Paxs	295.14	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R20049&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R20049&amp;Units=SI</a>
<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>

## 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>mccvol:</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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