

# 4-Pentenoic acid, 2-methyl-, pentyl ester

<b>Inchi:</b>	InChI=1S/C11H20O2/c1-4-6-7-9-13-11(12)10(3)8-5-2/h5,10H,2,4,6-9H2,1,3H3
<b>InchiKey:</b>	SEJDYFKTCPTWBP-UHFFFAOYSA-N
<b>Formula:</b>	C11H20O2
<b>SMILES:</b>	C=CCC(C)C(=O)OCCCC
<b>Mol. weight [g/mol]:</b>	184.28

## Physical Properties

Property code	Value	Unit	Source
gf	-106.78	kJ/mol	Joback Method
hf	-395.02	kJ/mol	Joback Method
hfus	22.23	kJ/mol	Joback Method
hvap	48.18	kJ/mol	Joback Method
log10ws	-2.90		Crippen Method
logp	2.932		Crippen Method
mcvol	168.990	ml/mol	McGowan Method
pc	2108.07	kPa	Joback Method
rinpol	1180.00		NIST Webbook
rinpol	1180.00		NIST Webbook
tb	523.61	K	Joback Method
tc	701.05	K	Joback Method
tf	269.13	K	Joback Method
vc	0.650	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	396.43	J/molxK	523.61	Joback Method
cpg	411.21	J/molxK	553.18	Joback Method
cpg	425.37	J/molxK	582.76	Joback Method
cpg	438.94	J/molxK	612.33	Joback Method
cpg	451.91	J/molxK	641.90	Joback Method
cpg	464.30	J/molxK	671.47	Joback Method
cpg	476.13	J/molxK	701.05	Joback Method
dvisc	0.0041707	Paxs	269.13	Joback Method

dvisc	0.0017765	Paxs	311.54	Joback Method
dvisc	0.0009284	Paxs	353.96	Joback Method
dvisc	0.0005575	Paxs	396.37	Joback Method
dvisc	0.0003694	Paxs	438.78	Joback Method
dvisc	0.0002632	Paxs	481.20	Joback Method
dvisc	0.0001982	Paxs	523.61	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U406107&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406107&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>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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