

# Hexanoic acid, 4-phenyl-

<b>Inchi:</b>	InChI=1S/C12H16O2/c1-2-10(8-9-12(13)14)11-6-4-3-5-7-11/h3-7,10H,2,8-9H2,1H3,(H,1)
<b>InchiKey:</b>	UDMXQDPTPVIQAG-UHFFFAOYSA-N
<b>Formula:</b>	C12H16O2
<b>SMILES:</b>	CCC(CCC(=O)O)c1ccccc1
<b>Mol. weight [g/mol]:</b>	192.25
<b>CAS:</b>	5354-04-1

## Physical Properties

Property code	Value	Unit	Source
gf	-105.61	kJ/mol	Joback Method
hf	-324.57	kJ/mol	Joback Method
hfus	23.04	kJ/mol	Joback Method
hvap	67.62	kJ/mol	Joback Method
log10ws	-3.01		Crippen Method
logp	3.045		Crippen Method
mcvol	163.620	ml/mol	McGowan Method
pc	2841.41	kPa	Joback Method
tb	646.25	K	Joback Method
tc	844.92	K	Joback Method
tf	347.17	K	Joback Method
vc	0.619	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	425.46	J/molxK	646.25	Joback Method
cpg	438.35	J/molxK	679.36	Joback Method
cpg	450.47	J/molxK	712.47	Joback Method
cpg	461.84	J/molxK	745.58	Joback Method
cpg	472.50	J/molxK	778.69	Joback Method
cpg	482.49	J/molxK	811.81	Joback Method
cpg	491.84	J/molxK	844.92	Joback Method
dvisc	0.0063405	Paxs	347.17	Joback Method
dvisc	0.0018029	Paxs	397.02	Joback Method

dvisc	0.0006786	Paxs	446.86	Joback Method
dvisc	0.0003108	Paxs	496.71	Joback Method
dvisc	0.0001641	Paxs	546.56	Joback Method
dvisc	0.0000964	Paxs	596.40	Joback Method
dvisc	0.0000615	Paxs	646.25	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=C5354041&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5354041&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>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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