

# 2-Phenoxyethyl pentanoate

<b>Inchi:</b>	InChI=1S/C13H18O3/c1-2-3-9-13(14)16-11-10-15-12-7-5-4-6-8-12/h4-8H,2-3,9-11H2,1H
<b>InchiKey:</b>	VTDVFBXXQCGSIB-UHFFFAOYSA-N
<b>Formula:</b>	C13H18O3
<b>SMILES:</b>	CCCCC(=O)OCCOc1ccccc1
<b>Mol. weight [g/mol]:</b>	222.28

## Physical Properties

Property code	Value	Unit	Source
gf	-167.93	kJ/mol	Joback Method
hf	-452.14	kJ/mol	Joback Method
hfus	27.44	kJ/mol	Joback Method
hvap	58.37	kJ/mol	Joback Method
log10ws	-2.97		Crippen Method
logp	2.799		Crippen Method
mcvol	183.580	ml/mol	McGowan Method
pc	2254.67	kPa	Joback Method
rinpol	1619.00		NIST Webbook
tb	622.23	K	Joback Method
tc	823.28	K	Joback Method
tf	357.08	K	Joback Method
vc	0.698	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	469.84	J/molxK	622.23	Joback Method
cpg	538.87	J/molxK	789.77	Joback Method
cpg	526.70	J/molxK	756.26	Joback Method
cpg	513.73	J/molxK	722.75	Joback Method
cpg	499.93	J/molxK	689.25	Joback Method
cpg	485.31	J/molxK	655.74	Joback Method
cpg	550.25	J/molxK	823.28	Joback Method
dvisc	0.0001331	Paxs	622.23	Joback Method
dvisc	0.0001715	Paxs	578.04	Joback Method

dvisc	0.0002302	Paxs	533.85	Joback Method
dvisc	0.0003261	Paxs	489.66	Joback Method
dvisc	0.0004948	Paxs	445.46	Joback Method
dvisc	0.0008230	Paxs	401.27	Joback Method
dvisc	0.0015527	Paxs	357.08	Joback Method

## Sources

<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=R540871&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R540871&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>

## 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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