

# 2-Ethylhexyl 2-phenoxypropionate

<b>Inchi:</b>	InChI=1S/C17H26O3/c1-4-6-10-15(5-2)13-19-17(18)14(3)20-16-11-8-7-9-12-16/h7-9,11-
<b>InchiKey:</b>	KKSYEZLSHKWXEN-UHFFFAOYSA-N
<b>Formula:</b>	C17H26O3
<b>SMILES:</b>	CCCCC(CC)COC(=O)C(C)Oc1ccccc1
<b>Mol. weight [g/mol]:</b>	278.39

## Physical Properties

Property code	Value	Unit	Source
gf	-139.13	kJ/mol	Joback Method
hf	-545.26	kJ/mol	Joback Method
hfus	30.76	kJ/mol	Joback Method
hvap	66.50	kJ/mol	Joback Method
log10ws	-4.51		Crippen Method
logp	4.214		Crippen Method
mcvol	239.940	ml/mol	McGowan Method
pc	1633.81	kPa	Joback Method
rinpol	1803.00		NIST Webbook
tb	712.87	K	Joback Method
tc	911.35	K	Joback Method
tf	372.16	K	Joback Method
vc	0.909	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	685.13	J/mol×K	712.87	Joback Method
cpg	702.79	J/mol×K	745.95	Joback Method
cpg	719.41	J/mol×K	779.03	Joback Method
cpg	734.99	J/mol×K	812.11	Joback Method
cpg	749.56	J/mol×K	845.19	Joback Method
cpg	763.14	J/mol×K	878.27	Joback Method
cpg	775.76	J/mol×K	911.35	Joback Method
dvisc	0.0017910	Paxs	372.16	Joback Method
dvisc	0.0007332	Paxs	428.94	Joback Method

dvisc	0.0003699	Paxs	485.73	Joback Method
dvisc	0.0002153	Paxs	542.51	Joback Method
dvisc	0.0001389	Paxs	599.30	Joback Method
dvisc	0.0000967	Paxs	656.09	Joback Method
dvisc	0.0000713	Paxs	712.87	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=R540311&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R540311&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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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