

# Carbamic acid, (2-(4-phenoxyphenoxy)ethyl)-, ethyl ester

<b>Other names:</b>	(2-(4-Phenoxyphenoxy)ethyl)carbamic acid ethyl ester Ethyl (2-(4-phenoxyphenoxy)ethyl)carbamate Fenoxycarb Insegar Ro 13-5223 ethyl 2-(p-phenoxyphenoxy)ethylcarbamate ethyl [2-(4-phenoxyphenoxy)ethyl]carbamate
<b>Inchi:</b>	InChI=1S/C17H19NO4/c1-2-20-17(19)18-12-13-21-14-8-10-16(11-9-14)22-15-6-4-3-5-7-
<b>InchiKey:</b>	HJUFTIJOISQSKQ-UHFFFAOYSA-N
<b>Formula:</b>	C17H19NO4
<b>SMILES:</b>	CCOC(=O)NCCOc1ccc(Oc2ccccc2)cc1
<b>Mol. weight [g/mol]:</b>	301.34
<b>CAS:</b>	79127-80-3

## Physical Properties

Property code	Value	Unit	Source
gf	-47.08	kJ/mol	Joback Method
hf	-388.39	kJ/mol	Joback Method
hfus	37.74	kJ/mol	Joback Method
hvap	79.06	kJ/mol	Joback Method
log10ws	-4.70		Estimated Solubility Method
log10ws	-4.72		Aqueous and cosolvent solubility data for drug-like organic compounds
log10ws	-4.70		Aqueous Solubility Prediction Method
logp	3.604		Crippen Method
mcvol	232.030	ml/mol	McGowan Method
pc	2108.07	kPa	Joback Method
rinpola	370.30		NIST Webbook
tb	818.00	K	Joback Method
tc	1041.45	K	Joback Method
tf	326.62	K	Thermodynamics of fenoxycarb in solution
tf	326.48	K	Aqueous Solubility Prediction Method
vc	0.867	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	680.09	J/molxK	818.00	Joback Method
cpg	694.29	J/molxK	855.24	Joback Method
cpg	707.23	J/molxK	892.48	Joback Method
cpg	718.94	J/molxK	929.73	Joback Method
cpg	729.41	J/molxK	966.97	Joback Method
cpg	738.68	J/molxK	1004.21	Joback Method
cpg	746.76	J/molxK	1041.45	Joback Method

## Sources

**Aqueous Solubility Prediction Method:** <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDataset002.xlsx>

**Estimated Solubility Method:** [http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl\\_file/ci034243xsi20040112\\_053635.txt](http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt)

**Aqueous and cosolvent solubility data for drug-like organic compounds:** <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2751500/>

**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C79127803&Units=SI>

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

**Thermodynamics of fenoxycarb in solution:** <https://www.doi.org/10.1016/j.jct.2013.06.007>

**Joback Method:** [https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>rinpola:</b>	Non-polar retention indices

**tb:** Normal Boiling Point Temperature  
**tc:** Critical Temperature  
**tf:** Normal melting (fusion) point  
**vc:** Critical Volume

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