

# Fumaric acid, 4-phenoxybenzyl pentyl ester

<b>Inchi:</b>	InChI=1S/C22H24O5/c1-2-3-7-16-25-21(23)14-15-22(24)26-17-18-10-12-20(13-11-18)27
<b>InchiKey:</b>	QQVSOLFHKZZSRK-CCEZHUSRSA-N
<b>Formula:</b>	C22H24O5
<b>SMILES:</b>	CCCCCOC(=O)C=CC(=O)OCc1ccc(Oc2ccccc2)cc1
<b>Mol. weight [g/mol]:</b>	368.42

## Physical Properties

Property code	Value	Unit	Source
gf	-143.07	kJ/mol	Joback Method
hf	-540.42	kJ/mol	Joback Method
hfus	47.39	kJ/mol	Joback Method
hvap	90.46	kJ/mol	Joback Method
log10ws	-5.33		Crippen Method
logp	4.812		Crippen Method
mcvol	289.770	ml/mol	McGowan Method
pc	1530.66	kPa	Joback Method
rinqol	2817.00		NIST Webbook
tb	940.26	K	Joback Method
tc	1166.89	K	Joback Method
tf	564.53	K	Joback Method
vc	1.097	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	896.88	J/molxK	940.26	Joback Method
cpg	950.20	J/molxK	1129.12	Joback Method
cpg	942.01	J/molxK	1091.35	Joback Method
cpg	932.63	J/molxK	1053.58	Joback Method
cpg	922.02	J/molxK	1015.80	Joback Method
cpg	910.11	J/molxK	978.03	Joback Method
cpg	957.24	J/molxK	1166.89	Joback Method
dvisc	0.0000277	Paxs	940.26	Joback Method
dvisc	0.0000354	Paxs	877.64	Joback Method

dvisc	0.0000470	Paxs	815.02	Joback Method
dvisc	0.0000654	Paxs	752.39	Joback Method
dvisc	0.0000966	Paxs	689.77	Joback Method
dvisc	0.0001543	Paxs	627.15	Joback Method
dvisc	0.0002733	Paxs	564.53	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U348113&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U348113&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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