

# Fumaric acid, heptyl 4-phenoxybenzyl ester

<b>Inchi:</b>	InChI=1S/C24H28O5/c1-2-3-4-5-9-18-27-23(25)16-17-24(26)28-19-20-12-14-22(15-13-2
<b>InchiKey:</b>	DBHCSXJYMMWFKK-WUKNDPDISA-N
<b>Formula:</b>	C24H28O5
<b>SMILES:</b>	CCCCCCCOC(=O)C=CC(=O)OCc1ccc(Oc2ccccc2)cc1
<b>Mol. weight [g/mol]:</b>	396.48

## Physical Properties

Property code	Value	Unit	Source
gf	-126.23	kJ/mol	Joback Method
hf	-581.70	kJ/mol	Joback Method
hfus	52.57	kJ/mol	Joback Method
hvap	94.91	kJ/mol	Joback Method
log10ws	-6.17		Crippen Method
logp	5.592		Crippen Method
mcvol	317.950	ml/mol	McGowan Method
pc	1324.24	kPa	Joback Method
rinsol	3012.00		NIST Webbook
tb	986.02	K	Joback Method
tc	1213.88	K	Joback Method
tf	587.07	K	Joback Method
vc	1.210	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1015.30	J/molxK	986.02	Joback Method
cpg	1068.61	J/molxK	1175.90	Joback Method
cpg	1060.52	J/molxK	1137.92	Joback Method
cpg	1051.19	J/molxK	1099.95	Joback Method
cpg	1040.58	J/molxK	1061.97	Joback Method
cpg	1028.64	J/molxK	1024.00	Joback Method
cpg	1075.54	J/molxK	1213.88	Joback Method
dvisc	0.0000207	Paxs	986.02	Joback Method
dvisc	0.0000266	Paxs	919.53	Joback Method

dvisc	0.0000355	Paxs	853.04	Joback Method
dvisc	0.0000499	Paxs	786.54	Joback Method
dvisc	0.0000745	Paxs	720.05	Joback Method
dvisc	0.0001208	Paxs	653.56	Joback Method
dvisc	0.0002185	Paxs	587.07	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=U348116&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U348116&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>

## 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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