

# Fumaric acid, decyl 4-phenoxybenzyl ester

<b>Inchi:</b>	InChI=1S/C27H34O5/c1-2-3-4-5-6-7-8-12-21-30-26(28)19-20-27(29)31-22-23-15-17-25(
<b>InchiKey:</b>	GDZPDSXGXXNUKJ-FMQUCBEESA-N
<b>Formula:</b>	C27H34O5
<b>SMILES:</b>	CCCCCCCCCOC(=O)C=CC(=O)OCc1ccc(Oc2ccccc2)cc1
<b>Mol. weight [g/mol]:</b>	438.56

## Physical Properties

Property code	Value	Unit	Source
gf	-100.97	kJ/mol	Joback Method
hf	-643.62	kJ/mol	Joback Method
hfus	60.34	kJ/mol	Joback Method
hvap	101.59	kJ/mol	Joback Method
log10ws	-7.42		Crippen Method
logp	6.762		Crippen Method
mcvol	360.220	ml/mol	McGowan Method
pc	1084.92	kPa	Joback Method
rinsol	3352.00		NIST Webbook
tb	1054.66	K	Joback Method
tc	1291.37	K	Joback Method
tf	620.88	K	Joback Method
vc	1.377	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1196.59	J/molxK	1054.66	Joback Method
cpg	1249.69	J/molxK	1251.92	Joback Method
cpg	1241.84	J/molxK	1212.47	Joback Method
cpg	1232.69	J/molxK	1173.02	Joback Method
cpg	1222.14	J/molxK	1133.56	Joback Method
cpg	1210.14	J/molxK	1094.11	Joback Method
cpg	1256.29	J/molxK	1291.37	Joback Method
dvisc	0.0000131	Paxs	1054.66	Joback Method
dvisc	0.0000170	Paxs	982.36	Joback Method

dvisc	0.0000229	Paxs	910.07	Joback Method
dvisc	0.0000326	Paxs	837.77	Joback Method
dvisc	0.0000495	Paxs	765.47	Joback Method
dvisc	0.0000820	Paxs	693.18	Joback Method
dvisc	0.0001527	Paxs	620.88	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=U348119&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U348119&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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