

# Fumaric acid, 2-methoxyphenyl cyclohexylmethyl ester

<b>Inchi:</b>	InChI=1S/C18H22O5/c1-21-15-9-5-6-10-16(15)23-18(20)12-11-17(19)22-13-14-7-3-2-4-8
<b>InchiKey:</b>	UZFWYSYVAHCDFQ-VAWYXSNFSA-N
<b>Formula:</b>	C18H22O5
<b>SMILES:</b>	COc1ccccc1OC(=O)C=CC(=O)OCC1CCCCC1
<b>Mol. weight [g/mol]:</b>	318.36

## Physical Properties

Property code	Value	Unit	Source
gf	-264.71	kJ/mol	Joback Method
hf	-640.07	kJ/mol	Joback Method
hfus	34.83	kJ/mol	Joback Method
hvap	79.71	kJ/mol	Joback Method
log10ws	-4.04		Crippen Method
logp	3.280		Crippen Method
mcvol	246.310	ml/mol	McGowan Method
pc	1893.65	kPa	Joback Method
rinpol	2475.00		NIST Webbook
rinpol	2475.00		NIST Webbook
tb	841.61	K	Joback Method
tc	1069.89	K	Joback Method
tf	500.41	K	Joback Method
vc	0.914	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	758.00	J/molxK	841.61	Joback Method
cpg	773.85	J/molxK	879.66	Joback Method
cpg	788.23	J/molxK	917.70	Joback Method
cpg	801.17	J/molxK	955.75	Joback Method
cpg	812.69	J/molxK	993.79	Joback Method
cpg	822.81	J/molxK	1031.84	Joback Method
cpg	831.57	J/molxK	1069.89	Joback Method
dvisc	0.0005349	Paxs	500.41	Joback Method

dvisc	0.0002933	Paxs	557.28	Joback Method
dvisc	0.0001798	Paxs	614.14	Joback Method
dvisc	0.0001197	Paxs	671.01	Joback Method
dvisc	0.0000849	Paxs	727.88	Joback Method
dvisc	0.0000633	Paxs	784.74	Joback Method
dvisc	0.0000492	Paxs	841.61	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U405935&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405935&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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