

# 2-Propenoic acid, 3-(4-methoxyphenyl)-, 2-octyl ester

Inchi:	InChI=1S/C18H26O3/c1-4-5-6-7-8-15(2)21-18(19)14-11-16-9-12-17(20-3)13-10-16/h9-15
InchiKey:	OQPRPNQXWIMXCT-SDNWHVVSQSA-N
Formula:	C18H26O3
SMILES:	CCCCCCC(C)OC(=O)C=Cc1ccc(OC)cc1
Mol. weight [g/mol]:	290.40

## Physical Properties

Property code	Value	Unit	Source
gf	-57.68	kJ/mol	Joback Method
hf	-454.87	kJ/mol	Joback Method
hfus	36.68	kJ/mol	Joback Method
hvap	69.74	kJ/mol	Joback Method
log10ws	-5.16		Crippen Method
logp	4.611		Crippen Method
mvol	249.730	ml/mol	McGowan Method
pc	1548.78	kPa	Joback Method
rmpol	2320.00		NIST Webbook
tb	745.33	K	Joback Method
tc	946.17	K	Joback Method
tf	405.87	K	Joback Method
vc	0.952	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	717.03	J/molxK	745.33	Joback Method
cpg	734.08	J/molxK	778.80	Joback Method
cpg	750.11	J/molxK	812.28	Joback Method
cpg	765.14	J/molxK	845.75	Joback Method
cpg	779.20	J/molxK	879.22	Joback Method
cpg	792.33	J/molxK	912.69	Joback Method
cpg	804.55	J/molxK	946.17	Joback Method
dvisc	0.0009624	Paxs	405.87	Joback Method
dvisc	0.0004541	Paxs	462.45	Joback Method

dvisc	0.0002524	Paxs	519.02	Joback Method
dvisc	0.0001574	Paxs	575.60	Joback Method
dvisc	0.0001069	Paxs	632.18	Joback Method
dvisc	0.0000773	Paxs	688.75	Joback Method
dvisc	0.0000587	Paxs	745.33	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R266627&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R266627&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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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