

# o-Methoxybenzoic acid, decyl ester

<b>Inchi:</b>	InChI=1S/C18H28O3/c1-3-4-5-6-7-8-9-12-15-21-18(19)16-13-10-11-14-17(16)20-2/h10-1
<b>InchiKey:</b>	XFBRZOSYOJYTL-UHFFFAOYSA-N
<b>Formula:</b>	C18H28O3
<b>SMILES:</b>	CCCCCCCCCOC(=O)c1ccccc1OC
<b>Mol. weight [g/mol]:</b>	292.41

## Physical Properties

Property code	Value	Unit	Source
gf	-135.46	kJ/mol	Joback Method
hf	-566.81	kJ/mol	Joback Method
hfus	40.00	kJ/mol	Joback Method
hvap	70.17	kJ/mol	Joback Method
log10ws	-5.60		Crippen Method
logp	4.993		Crippen Method
mvol	254.030	ml/mol	McGowan Method
pc	1478.15	kPa	Joback Method
rinpol	2222.40		NIST Webbook
rinpol	2222.40		NIST Webbook
tb	741.61	K	Joback Method
tc	934.08	K	Joback Method
tf	425.95	K	Joback Method
vc	0.978	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	740.43	J/mol×K	741.61	Joback Method
cpg	757.71	J/mol×K	773.69	Joback Method
cpg	774.00	J/mol×K	805.77	Joback Method
cpg	789.31	J/mol×K	837.85	Joback Method
cpg	803.67	J/mol×K	869.93	Joback Method
cpg	817.09	J/mol×K	902.00	Joback Method
cpg	829.58	J/mol×K	934.08	Joback Method
dvisc	0.0008747	Paxs	425.95	Joback Method

dvisc	0.0004615	Paxs	478.56	Joback Method
dvisc	0.0002763	Paxs	531.17	Joback Method
dvisc	0.0001815	Paxs	583.78	Joback Method
dvisc	0.0001278	Paxs	636.39	Joback Method
dvisc	0.0000949	Paxs	689.00	Joback Method
dvisc	0.0000735	Paxs	741.61	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U292301&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U292301&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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