

# Benzoic acid, 4-methoxy-, decyl ester

<b>Other names:</b>	p-Methoxybenzoic acid, decyl ester
<b>Inchi:</b>	InChI=1S/C18H28O3/c1-3-4-5-6-7-8-9-10-15-21-18(19)16-11-13-17(20-2)14-12-16/h11-1
<b>InchiKey:</b>	BENWKHCLHKJAMG-UHFFFAOYSA-N
<b>Formula:</b>	C18H28O3
<b>SMILES:</b>	CCCCCCCCCOC(=O)c1ccc(OC)cc1
<b>Mol. weight [g/mol]:</b>	292.41
<b>CAS:</b>	6974-04-5

## 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
mcvol	254.030	ml/mol	McGowan Method
pc	1478.15	kPa	Joback Method
rinpol	2283.30		NIST Webbook
tb	741.61	K	Joback Method
tc	934.08	K	Joback Method
tf	425.95	K	Joback Method
vc	0.978	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	740.43	J/molxK	741.61	Joback Method
cpg	757.71	J/molxK	773.69	Joback Method
cpg	774.00	J/molxK	805.77	Joback Method
cpg	789.31	J/molxK	837.85	Joback Method
cpg	803.67	J/molxK	869.93	Joback Method
cpg	817.09	J/molxK	902.00	Joback Method
cpg	829.58	J/molxK	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>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>
<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=C6974045&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6974045&amp;Units=SI</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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