

# Benzoic acid, dec-2-yl ester

<b>Inchi:</b>	InChI=1S/C17H26O2/c1-3-4-5-6-7-9-12-15(2)19-17(18)16-13-10-8-11-14-16/h8,10-11,13
<b>InchiKey:</b>	WPQGCBLKSNYZOU-UHFFFAOYSA-N
<b>Formula:</b>	C17H26O2
<b>SMILES:</b>	CCCCCCCCC(C)OC(=O)c1ccccc1
<b>Mol. weight [g/mol]:</b>	262.39

## Physical Properties

Property code	Value	Unit	Source
gf	-31.69	kJ/mol	Joback Method
hf	-407.76	kJ/mol	Joback Method
hfus	33.09	kJ/mol	Joback Method
hvap	64.48	kJ/mol	Joback Method
log10ws	-5.59		Crippen Method
logp	4.982		Crippen Method
mcvol	234.070	ml/mol	McGowan Method
pc	1645.76	kPa	Joback Method
rinpol	1914.00		NIST Webbook
tb	690.89	K	Joback Method
tc	887.37	K	Joback Method
tf	364.93	K	Joback Method
vc	0.897	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	655.33	J/molxK	690.89	Joback Method
cpg	673.13	J/molxK	723.64	Joback Method
cpg	689.91	J/molxK	756.38	Joback Method
cpg	705.70	J/molxK	789.13	Joback Method
cpg	720.53	J/molxK	821.87	Joback Method
cpg	734.45	J/molxK	854.62	Joback Method
cpg	747.47	J/molxK	887.37	Joback Method
dvisc	0.0020940	Paxs	364.93	Joback Method
dvisc	0.0009088	Paxs	419.26	Joback Method

dvisc	0.0004777	Paxs	473.58	Joback Method
dvisc	0.0002866	Paxs	527.91	Joback Method
dvisc	0.0001892	Paxs	582.24	Joback Method
dvisc	0.0001340	Paxs	636.56	Joback Method
dvisc	0.0001003	Paxs	690.89	Joback Method

## Sources

<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=U367897&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U367897&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>

## 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>mccvol:</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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