

# 4-(Decyloxy)benzoic acid

<b>Other names:</b>	p-Decyloxybenzoic acid 4-n-Decyloxybenzoic acid Benzoic acid, 4-(decyloxy)-
<b>Inchi:</b>	InChI=1S/C17H26O3/c1-2-3-4-5-6-7-8-9-14-20-16-12-10-15(11-13-16)17(18)19/h10-13H
<b>InchiKey:</b>	NZNICZRIRMGOFG-UHFFFAOYSA-N
<b>Formula:</b>	C17H26O3
<b>SMILES:</b>	CCCCCCCCCOc1ccc(C(=O)O)cc1
<b>Mol. weight [g/mol]:</b>	278.39
<b>CAS:</b>	5519-23-3

## Physical Properties

Property code	Value	Unit	Source
gf	-175.70	kJ/mol	Joback Method
hf	-566.18	kJ/mol	Joback Method
hfus	40.31	kJ/mol	Joback Method
hvap	82.21	kJ/mol	Joback Method
log10ws	-5.42		Crippen Method
logp	4.904		Crippen Method
mcvol	239.940	ml/mol	McGowan Method
pc	1741.91	kPa	Joback Method
tb	788.49	K	Joback Method
tc	979.32	K	Joback Method
tf	453.27	K	Joback Method
vc	0.922	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	719.51	J/mol×K	788.49	Joback Method
cpg	734.09	J/mol×K	820.29	Joback Method
cpg	747.80	J/mol×K	852.10	Joback Method
cpg	760.68	J/mol×K	883.90	Joback Method
cpg	772.74	J/mol×K	915.71	Joback Method
cpg	784.03	J/mol×K	947.51	Joback Method

cpg	794.55	J/mol×K	979.32	Joback Method
dvisc	0.0008446	Paxs	453.27	Joback Method
dvisc	0.0003221	Paxs	509.14	Joback Method
dvisc	0.0001487	Paxs	565.01	Joback Method
dvisc	0.0000789	Paxs	620.88	Joback Method
dvisc	0.0000464	Paxs	676.75	Joback Method
dvisc	0.0000297	Paxs	732.62	Joback Method
dvisc	0.0000202	Paxs	788.49	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C5519233&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5519233&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>
<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>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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