

# 2-(Heptyloxy carbonyl)benzoic acid

<b>Inchi:</b>	InChI=1S/C15H20O4/c1-2-3-4-5-8-11-19-15(18)13-10-7-6-9-12(13)14(16)17/h6-7,9-10H,
<b>InchiKey:</b>	DMVQNBGDYPFJCC-UHFFFAOYSA-N
<b>Formula:</b>	C15H20O4
<b>SMILES:</b>	CCCCCCCOC(=O)c1ccccc1C(=O)O
<b>Mol. weight [g/mol]:</b>	264.32
<b>CAS:</b>	24539-58-0

## Physical Properties

Property code	Value	Unit	Source
gf	-321.46	kJ/mol	Joback Method
hf	-637.48	kJ/mol	Joback Method
hfus	36.73	kJ/mol	Joback Method
hvap	84.50	kJ/mol	Joback Method
log10ws	-4.29		Crippen Method
logp	3.512		Crippen Method
mvol	213.330	ml/mol	McGowan Method
pc	2181.56	kPa	Joback Method
rinpol	2128.00		NIST Webbook
rinpol	2128.00		NIST Webbook
tb	796.60	K	Joback Method
tc	994.81	K	Joback Method
tf	480.66	K	Joback Method
vc	0.817	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	623.14	J/mol×K	796.60	Joback Method
cpg	635.53	J/mol×K	829.64	Joback Method
cpg	647.09	J/mol×K	862.67	Joback Method
cpg	657.85	J/mol×K	895.71	Joback Method
cpg	667.84	J/mol×K	928.74	Joback Method
cpg	677.07	J/mol×K	961.78	Joback Method
cpg	685.57	J/mol×K	994.81	Joback Method

dvisc	0.0007019	Paxs	480.66	Joback Method
dvisc	0.0003062	Paxs	533.32	Joback Method
dvisc	0.0001550	Paxs	585.97	Joback Method
dvisc	0.0000878	Paxs	638.63	Joback Method
dvisc	0.0000542	Paxs	691.29	Joback Method
dvisc	0.0000359	Paxs	743.94	Joback Method
dvisc	0.0000251	Paxs	796.60	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C24539580&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C24539580&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>mvol:</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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