

# 2-((Pentan-2-yloxy)carbonyl)benzoic acid

<b>Inchi:</b>	InChI=1S/C13H16O4/c1-3-6-9(2)17-13(16)11-8-5-4-7-10(11)12(14)15/h4-5,7-9H,3,6H2,1
<b>InchiKey:</b>	MDKPYAGDECEICL-UHFFFAOYSA-N
<b>Formula:</b>	C13H16O4
<b>SMILES:</b>	CCCC(C)OC(=O)c1ccccc1C(=O)O
<b>Mol. weight [g/mol]:</b>	236.26
<b>CAS:</b>	158703-44-7

## Physical Properties

Property code	Value	Unit	Source
gf	-340.74	kJ/mol	Joback Method
hf	-601.48	kJ/mol	Joback Method
hfus	28.03	kJ/mol	Joback Method
hvap	79.66	kJ/mol	Joback Method
log10ws	-3.56		Crippen Method
logp	2.730		Crippen Method
mcvol	185.150	ml/mol	McGowan Method
pc	2654.29	kPa	Joback Method
rinpol	1842.00		NIST Webbook
tb	750.40	K	Joback Method
tc	953.14	K	Joback Method
tf	443.12	K	Joback Method
vc	0.699	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	515.58	J/molxK	750.40	Joback Method
cpg	566.35	J/molxK	919.35	Joback Method
cpg	557.69	J/molxK	885.56	Joback Method
cpg	548.30	J/molxK	851.77	Joback Method
cpg	538.17	J/molxK	817.98	Joback Method
cpg	527.27	J/molxK	784.19	Joback Method
cpg	574.30	J/molxK	953.14	Joback Method
dvisc	0.0000326	Paxs	750.40	Joback Method

dvisc	0.0000477	Paxs	699.19	Joback Method
dvisc	0.0000740	Paxs	647.97	Joback Method
dvisc	0.0001238	Paxs	596.76	Joback Method
dvisc	0.0002282	Paxs	545.55	Joback Method
dvisc	0.0004776	Paxs	494.33	Joback Method
dvisc	0.0011855	Paxs	443.12	Joback Method

## Sources

<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=C158703447&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C158703447&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>

## Legend

<b>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> 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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