

# 2-((4-Methylpentan-2-yloxy)carbonyl)benzoic acid

Inchi:	InChI=1S/C14H18O4/c1-9(2)8-10(3)18-14(17)12-7-5-4-6-11(12)13(15)16/h4-7,9-10H,8H
InchiKey:	WBCHJVGWGRPPOT-UHFFFAOYSA-N
Formula:	C14H18O4
SMILES:	CC(C)CC(C)OC(=O)c1ccccc1C(=O)O
Mol. weight [g/mol]:	250.29
CAS:	856806-35-4

## Physical Properties

Property code	Value	Unit	Source
gf	-334.76	kJ/mol	Joback Method
hf	-627.40	kJ/mol	Joback Method
hfus	27.10	kJ/mol	Joback Method
hvap	81.50	kJ/mol	Joback Method
log10ws	-3.74		Crippen Method
logp	2.976		Crippen Method
mcvol	199.240	ml/mol	McGowan Method
pc	2429.05	kPa	Joback Method
rinpol	1896.00		NIST Webbook
rinpol	1896.00		NIST Webbook
tb	772.84	K	Joback Method
tc	976.87	K	Joback Method
tf	439.39	K	Joback Method
vc	0.749	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	569.69	J/molxK	772.84	Joback Method
cpg	581.99	J/molxK	806.84	Joback Method
cpg	593.43	J/molxK	840.85	Joback Method
cpg	604.04	J/molxK	874.85	Joback Method
cpg	613.85	J/molxK	908.86	Joback Method
cpg	622.87	J/molxK	942.86	Joback Method
cpg	631.13	J/molxK	976.87	Joback Method

dvisc	0.0013095	Paxs	439.39	Joback Method
dvisc	0.0004687	Paxs	494.97	Joback Method
dvisc	0.0002064	Paxs	550.54	Joback Method
dvisc	0.0001057	Paxs	606.12	Joback Method
dvisc	0.0000605	Paxs	661.69	Joback Method
dvisc	0.0000378	Paxs	717.26	Joback Method
dvisc	0.0000253	Paxs	772.84	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=C856806354&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C856806354&amp;Units=SI</a>
<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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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

Latest version available from:

<https://www.cheméo.com/cid/89-829-4/2-4-Methylpentan-2-yloxy-carbonyl-benzoic-acid.pdf>

Generated by Cheméo on 2024-04-23 14:41:20.548704308 +0000 UTC m=+16172529.469281630.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.