

# 2-((3,5,5-Trimethylhexyloxy)carbonyl)benzoic acid

<b>Inchi:</b>	InChI=1S/C17H24O4/c1-12(11-17(2,3)4)9-10-21-16(20)14-8-6-5-7-13(14)15(18)19/h5-8,
<b>InchiKey:</b>	RJFYLVAMNLWRKY-UHFFFAOYSA-N
<b>Formula:</b>	C17H24O4
<b>SMILES:</b>	CC(CCOC(=O)c1ccccc1C(=O)O)CC(C)(C)C
<b>Mol. weight [g/mol]:</b>	292.37
<b>CAS:</b>	297182-83-3

## Physical Properties

Property code	Value	Unit	Source
gf	-304.22	kJ/mol	Joback Method
hf	-692.79	kJ/mol	Joback Method
hfus	30.98	kJ/mol	Joback Method
hvap	87.27	kJ/mol	Joback Method
log10ws	-4.64		Crippen Method
logp	4.004		Crippen Method
mcvol	241.510	ml/mol	McGowan Method
pc	1880.53	kPa	Joback Method
rinpol	2213.00		NIST Webbook
tb	838.69	K	Joback Method
tc	1044.60	K	Joback Method
tf	490.62	K	Joback Method
vc	0.911	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	737.20	J/molxK	838.69	Joback Method
cpg	794.90	J/molxK	1010.28	Joback Method
cpg	785.04	J/molxK	975.96	Joback Method
cpg	774.39	J/molxK	941.64	Joback Method
cpg	762.90	J/molxK	907.33	Joback Method
cpg	750.52	J/molxK	873.01	Joback Method
cpg	804.01	J/molxK	1044.60	Joback Method
dvisc	0.0000129	Paxs	838.69	Joback Method

dvisc	0.0000192	Paxs	780.68	Joback Method
dvisc	0.0000306	Paxs	722.67	Joback Method
dvisc	0.0000527	Paxs	664.65	Joback Method
dvisc	0.0001008	Paxs	606.64	Joback Method
dvisc	0.0002210	Paxs	548.63	Joback Method
dvisc	0.0005837	Paxs	490.62	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=C297182833&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C297182833&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>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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