

# Benzoic acid, 2,6-dimethoxy-

<b>Other names:</b>	2,6-Dimethoxybenzoic acid
<b>Inchi:</b>	InChI=1S/C9H10O4/c1-12-6-4-3-5-7(13-2)8(6)9(10)11/h3-5H,1-2H3,(H,10,11)
<b>InchiKey:</b>	MBIZFBDREVRUHY-UHFFFAOYSA-N
<b>Formula:</b>	C9H10O4
<b>SMILES:</b>	<chem>COc1cccc(OC)c1C(=O)O</chem>
<b>Mol. weight [g/mol]:</b>	182.17
<b>CAS:</b>	1466-76-8

## Physical Properties

Property code	Value	Unit	Source
chs	-4276.90 ± 0.80	kJ/mol	NIST Webbook
gf	-357.69	kJ/mol	Joback Method
hf	-544.75	kJ/mol	Joback Method
hfs	-693.80 ± 1.40	kJ/mol	NIST Webbook
hfus	20.39	kJ/mol	Joback Method
hsub	121.70 ± 0.40	kJ/mol	NIST Webbook
hsub	121.70 ± 0.40	kJ/mol	NIST Webbook
hvap	67.47	kJ/mol	Joback Method
log10ws	-1.77		Crippen Method
logp	1.402		Crippen Method
mcvol	133.090	ml/mol	McGowan Method
pc	3628.97	kPa	Joback Method
rinpol	1460.00		NIST Webbook
tb	632.85	K	Joback Method
tc	834.15	K	Joback Method
tf	397.86	K	Joback Method
vc	0.492	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	376.13	J/mol×K	834.15	Joback Method
cpg	324.57	J/mol×K	632.85	Joback Method
cpg	334.47	J/mol×K	666.40	Joback Method

cpg	343.86	J/mol×K	699.95	Joback Method
cpg	352.73	J/mol×K	733.50	Joback Method
cpg	361.07	J/mol×K	767.05	Joback Method
cpg	368.87	J/mol×K	800.60	Joback Method
dvisc	0.0000571	Paxs	632.85	Joback Method
dvisc	0.0012398	Paxs	397.86	Joback Method
dvisc	0.0005897	Paxs	437.03	Joback Method
dvisc	0.0003170	Paxs	476.19	Joback Method
dvisc	0.0001872	Paxs	515.36	Joback Method
dvisc	0.0001191	Paxs	554.52	Joback Method
dvisc	0.0000805	Paxs	593.68	Joback Method
hsubt	118.40 ± 0.40	kJ/mol	356.50	NIST Webbook

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C1466768&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1466768&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>chs:</b>	Standard solid enthalpy of combustion
<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>hfs:</b>	Solid phase enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hsub:</b>	Enthalpy of sublimation at standard conditions
<b>hsubt:</b>	Enthalpy of sublimation at a given temperature
<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

**tb:** Normal Boiling Point Temperature  
**tc:** Critical Temperature  
**tf:** Normal melting (fusion) point  
**vc:** Critical Volume

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