

# Benzoic acid, 2,4-dimethoxy-, methyl ester

<b>Other names:</b>	Methyl 2,4-dimethoxybenzoate 2,4-Dimethoxybenzoic acid methyl ester 2,4-Dihydroxybenzoic acid, dimethyl ether, methyl ester
<b>Inchi:</b>	InChI=1S/C10H12O4/c1-12-7-4-5-8(10(11)14-3)9(6-7)13-2/h4-6H,1-3H3
<b>InchiKey:</b>	IHIJFZWLGPPEYPJ-UHFFFAOYSA-N
<b>Formula:</b>	C10H12O4
<b>SMILES:</b>	COC(=O)c1ccc(OC)cc1OC
<b>Mol. weight [g/mol]:</b>	196.20
<b>CAS:</b>	2150-41-6

## Physical Properties

Property code	Value	Unit	Source
gf	-317.45	kJ/mol	Joback Method
hf	-545.38	kJ/mol	Joback Method
hfus	20.08	kJ/mol	Joback Method
hvap	55.43	kJ/mol	Joback Method
log10ws	-1.95		Crippen Method
logp	1.490		Crippen Method
mcvol	147.180	ml/mol	McGowan Method
pc	2875.03	kPa	Joback Method
rinpol	1621.00		NIST Webbook
rinpol	1614.50		NIST Webbook
rinpol	1621.00		NIST Webbook
tb	585.97	K	Joback Method
tc	796.18	K	Joback Method
tf	370.54	K	Joback Method
vc	0.547	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	347.19	J/mol×K	585.97	Joback Method
cpg	359.83	J/mol×K	621.00	Joback Method
cpg	371.90	J/mol×K	656.04	Joback Method

cpg	383.37	J/molxK	691.07	Joback Method
cpg	394.23	J/molxK	726.11	Joback Method
cpg	404.44	J/molxK	761.14	Joback Method
cpg	413.99	J/molxK	796.18	Joback Method
dvisc	0.0008149	Paxs	370.54	Joback Method
dvisc	0.0005311	Paxs	406.45	Joback Method
dvisc	0.0003711	Paxs	442.35	Joback Method
dvisc	0.0002736	Paxs	478.25	Joback Method
dvisc	0.0002105	Paxs	514.16	Joback Method
dvisc	0.0001676	Paxs	550.07	Joback Method
dvisc	0.0001372	Paxs	585.97	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=C2150416&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2150416&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

Latest version available from:

<https://www.cheméo.com/cid/85-871-1/Benzoic-acid-2-4-dimethoxy-methyl-ester.pdf>

Generated by Cheméo on 2024-04-20 08:01:30.67885761 +0000 UTC m=+15889339.599434923.

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