

Benzoic acid, 2-hydroxy-4-methoxy-6-methyl-, methyl ester

Other names:	Methyl everninate Methyl 2-hydroxy-4-methoxy-6-methylbenzoate
Inchi:	InChI=1S/C10H12O4/c1-6-4-7(13-2)5-8(11)9(6)10(12)14-3/h4-5,11H,1-3H3
InchiKey:	PFVPJOAAHSOENR-UHFFFAOYSA-N
Formula:	C10H12O4
SMILES:	<chem>COC(=O)c1c(C)cc(OC)cc1O</chem>
Mol. weight [g/mol]:	196.20
CAS:	520-43-4

Physical Properties

Property code	Value	Unit	Source
gf	-367.07	kJ/mol	Joback Method
hf	-590.47	kJ/mol	Joback Method
hfus	24.68	kJ/mol	Joback Method
hvap	66.03	kJ/mol	Joback Method
log10ws	-1.86		Crippen Method
logp	1.496		Crippen Method
mcvol	147.180	ml/mol	McGowan Method
pc	3464.28	kPa	Joback Method
rinpol	1550.00		NIST Webbook
rinpol	1546.00		NIST Webbook
rinpol	1580.00		NIST Webbook
rinpol	1550.00		NIST Webbook
rinpol	1580.00		NIST Webbook
tb	644.17	K	Joback Method
tc	866.56	K	Joback Method
tf	460.03	K	Joback Method
vc	0.495	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	371.54	J/molxK	644.17	Joback Method
cpg	423.15	J/molxK	829.49	Joback Method

cpg	413.99	J/molxK	792.43	Joback Method
cpg	404.28	J/molxK	755.36	Joback Method
cpg	393.99	J/molxK	718.30	Joback Method
cpg	383.08	J/molxK	681.23	Joback Method
cpg	431.80	J/molxK	866.56	Joback Method
dvisc	0.0000209	Paxs	644.17	Joback Method
dvisc	0.0000290	Paxs	613.48	Joback Method
dvisc	0.0000415	Paxs	582.79	Joback Method
dvisc	0.0000619	Paxs	552.10	Joback Method
dvisc	0.0000967	Paxs	521.41	Joback Method
dvisc	0.0001598	Paxs	490.72	Joback Method
dvisc	0.0002824	Paxs	460.03	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C520434&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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