Benzenemethanol, 4-methoxy-, formate

Other names:	Benzyl alcohol, p-methoxy-, formate
	p-Methoxybenzyl alcohol, formate
	Anisyl alcohol, formate
	Anisyl formate
	4-Methoxybenzyl formate
	p-Anisyl formate
	p-Methoxybenzyl formate
Inchi:	InChI=1S/C9H10O3/c1-11-9-4-2-8(3-5-9)6-12-7-10/h2-5,7H,6H2,1H3
InchiKey:	XPDORSROGAZEGY-UHFFFAOYSA-N
Formula:	C9H10O3
SMILES:	COc1ccc(COC=O)cc1
Mol. weight [g/mol]:	166.17
CAS:	122-91-8

Physical Properties

Property code	Value	Unit	Source
gf	-181.84	kJ/mol	Joback Method
hf	-354.05	kJ/mol	Joback Method
hfus	17.38	kJ/mol	Joback Method
hvap	50.11	kJ/mol	Joback Method
log10ws	-1.75		Crippen Method
logp	1.368		Crippen Method
mcvol	127.220	ml/mol	McGowan Method
pc	3356.75	kPa	Joback Method
rinpol	1300.00		NIST Webbook
rinpol	1300.00		NIST Webbook
rinpol	1321.00		NIST Webbook
rinpol	1327.00		NIST Webbook
rinpol	1307.00		NIST Webbook
rinpol	1332.00		NIST Webbook
rinpol	1327.00		NIST Webbook
rinpol	1321.00		NIST Webbook
tb	530.48	K	Joback Method
tc	740.30	K	Joback Method
tf	316.59	K	Joback Method
vc	0.484	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	280.27	J/mol×K	530.48	Joback Method
cpg	333.19	J/mol×K	705.33	Joback Method
cpg	323.73	J/mol×K	670.36	Joback Method
cpg	313.70	J/mol×K	635.39	Joback Method
cpg	303.12	J/mol×K	600.42	Joback Method
cpg	291.97	J/mol×K	565.45	Joback Method
cpg	342.08	J/mol×K	740.30	Joback Method
dvisc	0.0002028	Pa×s	530.48	Joback Method
dvisc	0.0002512	Pa×s	494.83	Joback Method
dvisc	0.0003217	Pa×s	459.18	Joback Method
dvisc	0.0004295	Pa×s	423.54	Joback Method
dvisc	0.0006047	Pa×s	387.89	Joback Method
dvisc	0.0009125	Pa×s	352.24	Joback Method
dvisc	0.0015106	Pa×s	316.59	Joback Method

Sources

Joback Method: https://en.wikipedia.org/wiki/Joback_method
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C122918&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

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