Phenol, 4-methyl-2,6-dimethoxy

Other names:	4-methyl-2,6-dimethoxyphenol
	Syringol, 4-methyl
	4-Methylsyringol
	4-Methyl-2,6-dimethoxyphenol (4-methylsyringol)
	2,6-Dimethoxy-4-methylphenol
	Phenol, 2,6-dimethoxy-4-methyl-
	3,5-Dimethoxy-4-hydroxytoluene
	2,6-dimethoxy-p-cresol
Inchi:	InChI=1S/C9H12O3/c1-6-4-7(11-2)9(10)8(5-6)12-3/h4-5,10H,1-3H3
InchiKey:	ZFBNNSOJNZBLLS-UHFFFAOYSA-N
Formula:	C9H12O3
SMILES:	COc1cc(C)cc(OC)c1O
Mol. weight [g/mol]:	168.19
CAS:	6638-05-7

Physical Properties

Property code	Value	Unit	Source
gf	-246.57	kJ/mol	Joback Method
hf	-457.25	kJ/mol	Joback Method
hfus	20.49	kJ/mol	Joback Method
hvap	57.06	kJ/mol	Joback Method
log10ws	-1.73		Crippen Method
logp	1.718		Crippen Method
mcvol	131.520	ml/mol	McGowan Method
pc	3602.88	kPa	Joback Method
rinpol	1447.50		NIST Webbook
rinpol	1403.00		NIST Webbook
rinpol	1473.00		NIST Webbook
rinpol	1473.00		NIST Webbook
ripol	2349.00		NIST Webbook
ripol	2332.00		NIST Webbook
ripol	2350.00		NIST Webbook
ripol	2349.00		NIST Webbook
tb	567.42	K	Joback Method
tc	786.64	K	Joback Method
tf	398.83	K	Joback Method
vc	0.433	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	311.99	J/mol×K	567.42	Joback Method
cpg	365.03	J/mol×K	750.10	Joback Method
cpg	355.51	J/mol×K	713.56	Joback Method
cpg	345.47	J/mol×K	677.03	Joback Method
cpg	334.89	J/mol×K	640.49	Joback Method
cpg	323.74	J/mol×K	603.96	Joback Method
cpg	374.05	J/mol×K	786.64	Joback Method
dvisc	0.0000337	Pa×s	567.42	Joback Method
dvisc	0.0000480	Pa×s	539.32	Joback Method
dvisc	0.0000710	Pa×s	511.22	Joback Method
dvisc	0.0001099	Pa×s	483.13	Joback Method
dvisc	0.0001797	Pa×s	455.03	Joback Method
dvisc	0.0003134	Pa×s	426.93	Joback Method
dvisc	0.0005912	Pa×s	398.83	Joback Method

Sources

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
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C6638057&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume