Phenol, 2-methoxy-3-methyl-

Other names: 2-Methoxy-3-methylphenol
2-Methoxy-2-methyl Phenol
Inchi: InChI=1S/C8H10O2/c1-6-4-3-5-7(9)8(6)10-2/h3-5,9H,1-2H3
InchiKey: SHESIBIEPSTHMZ-UHFFFAOYSA-N
Formula: C8H10O2
SMILES: COc1c(C)cccc1O
Mol. weight [g/mol]: 138.16
CAS: 18102-31-3

Physical Properties

Property code	Value	Unit	Source
gf	-140.36	kJ/mol	Joback Method
hf	-292.92	kJ/mol	Joback Method
hfus	17.10	kJ/mol	Joback Method
hvap	51.76	kJ/mol	Joback Method
log10ws	-1.62		Crippen Method
logp	1.709		Crippen Method
mcvol	111.560	ml/mol	McGowan Method
pc	4227.54	kPa	Joback Method
ripol	2021.00		NIST Webbook
ripol	2021.00		NIST Webbook
tb	517.14	K	Joback Method
tc	741.86	K	Joback Method
tf	352.81	K	Joback Method
vc	0.359	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	246.51	J/mol×K	517.14	Joback Method
cpg	257.71	J/mol×K	554.59	Joback Method
cpg	268.21	J/mol×K	592.05	Joback Method
cpg	278.05	J/mol×K	629.50	Joback Method
cpg	287.30	J/mol×K	666.95	Joback Method

cpg	296.00	J/mol×K	704.40	Joback Method
cpg	304.20	J/mol×K	741.86	Joback Method
dvisc	0.0017487	Pa×s	352.81	Joback Method
dvisc	0.0008248	Pa×s	380.20	Joback Method
dvisc	0.0004303	Pa×s	407.59	Joback Method
dvisc	0.0002437	Pa×s	434.98	Joback Method
dvisc	0.0001476	Pa×s	462.36	Joback Method
dvisc	0.0000946	Pa×s	489.75	Joback Method
dvisc	0.0000635	Pa×s	517.14	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=C18102313&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume