

2-Methoxy-6-methylphenol

Other names:	Phenol, 2-methoxy-6-methyl- 3-Methoxy-4-hydroxytoluene
Inchi:	InChI=1S/C8H10O2/c1-6-4-3-5-7(10-2)8(6)9/h3-5,9H,1-2H3
InchiKey:	WBHAUHHMPXBZCQ-UHFFFAOYSA-N
Formula:	C8H10O2
SMILES:	COc1cccc(C)c1O
Mol. weight [g/mol]:	138.16
CAS:	2896-67-5

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
tb	517.14	K	Joback Method
tc	741.86	K	Joback Method
tf	352.81	K	Joback Method
vc	0.359	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	246.51	J/molxK	517.14	Joback Method
cpg	257.71	J/molxK	554.59	Joback Method
cpg	268.21	J/molxK	592.05	Joback Method
cpg	278.05	J/molxK	629.50	Joback Method
cpg	287.30	J/molxK	666.95	Joback Method
cpg	296.00	J/molxK	704.40	Joback Method
cpg	304.20	J/molxK	741.86	Joback Method

dvisc	0.0017487	Paxs	352.81	Joback Method
dvisc	0.0008248	Paxs	380.20	Joback Method
dvisc	0.0004303	Paxs	407.59	Joback Method
dvisc	0.0002437	Paxs	434.98	Joback Method
dvisc	0.0001476	Paxs	462.36	Joback Method
dvisc	0.0000946	Paxs	489.75	Joback Method
dvisc	0.0000635	Paxs	517.14	Joback Method
hvapt	53.20	kJ/mol	425.50	NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C2896675&Units=SI

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
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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