

Propanal, 3-(4-hydroxy-3-methoxyphenyl)

Inchi:	InChI=1S/C10H12O3/c1-13-10-7-8(3-2-6-11)4-5-9(10)12/h4-7,12H,2-3H2,1H3
InchiKey:	KIEATOGEYUWTSR-UHFFFAOYSA-N
Formula:	C10H12O3
SMILES:	COc1cc(CCC=O)ccc1O
Mol. weight [g/mol]:	180.20

Physical Properties

Property code	Value	Unit	Source
gf	-223.04	kJ/mol	Joback Method
hf	-419.78	kJ/mol	Joback Method
hfus	24.57	kJ/mol	Joback Method
hvap	62.94	kJ/mol	Joback Method
log10ws	-1.64		Crippen Method
logp	1.532		Crippen Method
mcvol	141.310	ml/mol	McGowan Method
pc	3646.53	kPa	Joback Method
rinpol	1515.00		NIST Webbook
rinpol	1593.00		NIST Webbook
rinpol	1593.00		NIST Webbook
tb	611.56	K	Joback Method
tc	831.01	K	Joback Method
tf	417.35	K	Joback Method
vc	0.488	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	350.47	J/molxK	611.56	Joback Method
cpg	362.06	J/molxK	648.14	Joback Method
cpg	372.93	J/molxK	684.71	Joback Method
cpg	383.15	J/molxK	721.29	Joback Method
cpg	392.78	J/molxK	757.86	Joback Method
cpg	401.86	J/molxK	794.44	Joback Method
cpg	410.46	J/molxK	831.01	Joback Method

dvisc	0.0007649	Paxs	417.35	Joback Method
dvisc	0.0003796	Paxs	449.72	Joback Method
dvisc	0.0002070	Paxs	482.09	Joback Method
dvisc	0.0001218	Paxs	514.45	Joback Method
dvisc	0.0000764	Paxs	546.82	Joback Method
dvisc	0.0000504	Paxs	579.19	Joback Method
dvisc	0.0000348	Paxs	611.56	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=R88546&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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