Phenol, 4-ethyl-2,6-dimethoxy

Other names:	4-Ethylsyringol
	Syringol, 4-ethyl
	4-Ethyl-2,6-dimethoxyphenol (4-ethylsyringol)
	2,6-Dimethoxy-4-ethyl-phenol
Inchi:	InChI=1S/C10H14O3/c1-4-7-5-8(12-2)10(11)9(6-7)13-3/h5-6,11H,4H2,1-3H3
InchiKey:	PJWDIHUFLXQRFF-UHFFFAOYSA-N
Formula:	C10H14O3
SMILES:	CCc1cc(OC)c(O)c(OC)c1
Mol. weight [g/mol]:	182.22

Physical Properties

Property code	Value	Unit	Source
gf	-238.15	kJ/mol	Joback Method
hf	-477.89	kJ/mol	Joback Method
hfus	23.08	kJ/mol	Joback Method
hvap	59.29	kJ/mol	Joback Method
log10ws	-2.06		Crippen Method
logp	1.972		Crippen Method
mcvol	145.610	ml/mol	McGowan Method
pc	3220.98	kPa	Joback Method
rinpol	1490.00		NIST Webbook
rinpol	1557.00		NIST Webbook
ripol	2404.00		NIST Webbook
tb	590.30	K	Joback Method
tc	805.71	K	Joback Method
tf	410.10	K	Joback Method
vc	0.489	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	358.08	J/mol×K	590.30	Joback Method
cpg	415.37	J/mol×K	769.81	Joback Method
cpg	405.08	J/mol×K	733.90	Joback Method

cpg	394.24	J/mol×K	698.00	Joback Method
cpg	382.81	J/mol×K	662.10	Joback Method
cpg	370.77	J/mol×K	626.20	Joback Method
cpg	425.12	J/mol×K	805.71	Joback Method
dvisc	0.0000270	Pa×s	590.30	Joback Method
dvisc	0.0000386	Pa×s	560.27	Joback Method
dvisc	0.0000575	Pa×s	530.23	Joback Method
dvisc	0.0000898	Pa×s	500.20	Joback Method
dvisc	0.0001485	Pa×s	470.17	Joback Method
dvisc	0.0002630	Pa×s	440.13	Joback Method
dvisc	0.0005067	Pa×s	410.10	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=R14541&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