Phenol, 4-(ethoxymethyl)-

Other names:	4-Ethoxymethylphenol
	«alpha»-ethoxy-p-cresol
Inchi:	InChI=1S/C9H12O2/c1-2-11-7-8-3-5-9(10)6-4-8/h3-6,10H,2,7H2,1H3
InchiKey:	UWQZVUQKBWZNLN-UHFFFAOYSA-N
Formula:	C9H12O2
SMILES:	CCOCc1ccc(O)cc1
Mol. weight [g/mol]:	152.19
CAS:	57726-26-8

Physical Properties

Property code	Value	Unit	Source
gf	-122.31	kJ/mol	Joback Method
hf	-302.09	kJ/mol	Joback Method
hfus	20.08	kJ/mol	Joback Method
hvap	53.33	kJ/mol	Joback Method
log10ws	-1.82		Crippen Method
logp	1.929		Crippen Method
mcvol	125.650	ml/mol	McGowan Method
pc	3815.10	kPa	Joback Method
rinpol	1378.70		NIST Webbook
rinpol	1378.70		NIST Webbook
tb	535.04	K	Joback Method
tc	754.68	K	Joback Method
tf	351.56	K	Joback Method
vc	0.415	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	290.27	J/mol×K	535.04	Joback Method
cpg	345.78	J/mol×K	718.08	Joback Method
cpg	336.05	J/mol×K	681.47	Joback Method
cpg	325.69	J/mol×K	644.86	Joback Method
cpg	314.65	J/mol×K	608.25	Joback Method

cpg	302.86	J/mol×K	571.65	Joback Method
cpg	354.94	J/mol×K	754.68	Joback Method
dvisc	0.0000540	Pa×s	535.04	Joback Method
dvisc	0.0000833	Pa×s	504.46	Joback Method
dvisc	0.0001359	Pa×s	473.88	Joback Method
dvisc	0.0002372	Pa×s	443.30	Joback Method
dvisc	0.0004496	Pa×s	412.72	Joback Method
dvisc	0.0009440	Pa×s	382.14	Joback Method
dvisc	0.0022554	Pa×s	351.56	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=C57726268&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
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume