Phenol, 4-(1-propenyl), (E)

Other names: trans-p-Anol
Inchi: InChI=1S/C9H10O/c1-2-3-8-4-6-9(10)7-5-8/h2-7,10H,1H3/b3-2+
InchiKey: UMFCIIBZHQXRCJ-NSCUHMNNSA-N
Formula: C9H10O
SMILES: CC=Cc1ccc(O)cc1
Mol. weight [g/mol]: 134.18

Physical Properties

Property code	Value	Unit	Source
gf	62.91	kJ/mol	Joback Method
hf	-52.65	kJ/mol	Joback Method
hfus	19.09	kJ/mol	Joback Method
hvap	50.88	kJ/mol	Joback Method
log10ws	-2.26		Crippen Method
logp	2.425		Crippen Method
mcvol	115.480	ml/mol	McGowan Method
pc	4162.33	kPa	Joback Method
rinpol	1321.00		NIST Webbook
rinpol	1321.00		NIST Webbook
tb	516.78	K	Joback Method
tc	749.81	K	Joback Method
tf	324.25	K	Joback Method
vc	0.378	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	249.07	J/mol×K	516.78	Joback Method
cpg	261.39	J/mol×K	555.62	Joback Method
cpg	272.71	J/mol×K	594.46	Joback Method
cpg	283.12	J/mol×K	633.30	Joback Method
cpg	292.74	J/mol×K	672.13	Joback Method
cpg	301.67	J/mol×K	710.97	Joback Method
cpg	310.01	J/mol×K	749.81	Joback Method

dvisc	0.0042810	Pa×s	324.25	Joback Method
dvisc	0.0015405	Pa×s	356.34	Joback Method
dvisc	0.0006563	Pa×s	388.43	Joback Method
dvisc	0.0003185	Pa×s	420.51	Joback Method
dvisc	0.0001713	Pa×s	452.60	Joback Method
dvisc	0.0001000	Pa×s	484.69	Joback Method
dvisc	0.0000624	Pa×s	516.78	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=R254203&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