4-vinyl-2-methylphenol

Inchi: InChI=1S/C9H10O/c1-3-8-4-5-9(10)7(2)6-8/h3-6,10H,1H2,2H3
InchiKey: QKJHNPXSYSFZMJ-UHFFFAOYSA-N
Formula: C9H10O
SMILES: C=Cc1ccc(O)c(C)c1
Mol. weight [g/mol]: 134.18

Physical Properties

Property code	Value	Unit	Source
gf	60.90	kJ/mol	Joback Method
hf	-55.91	kJ/mol	Joback Method
hfus	17.22	kJ/mol	Joback Method
hvap	50.91	kJ/mol	Joback Method
log10ws	-2.32		Crippen Method
logp	2.344		Crippen Method
mcvol	115.480	ml/mol	McGowan Method
pc	4031.24	kPa	Joback Method
rinpol	1317.00		NIST Webbook
ripol	2194.00		NIST Webbook
tb	514.28	K	Joback Method
tc	742.74	K	Joback Method
tf	340.09	K	Joback Method
vc	0.379	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	248.93	J/mol×K	514.28	Joback Method
cpg	260.71	J/mol×K	552.36	Joback Method
cpg	271.62	J/mol×K	590.43	Joback Method
cpg	281.74	J/mol×K	628.51	Joback Method
cpg	291.16	J/mol×K	666.59	Joback Method
cpg	299.95	J/mol×K	704.66	Joback Method
cpg	308.20	J/mol×K	742.74	Joback Method
dvisc	0.0026381	Pa×s	340.09	Joback Method

dvisc	0.0011507	Pa×s	369.12	Joback Method
dvisc	0.0005665	Pa×s	398.15	Joback Method
dvisc	0.0003071	Pa×s	427.19	Joback Method
dvisc	0.0001799	Pa×s	456.22	Joback Method
dvisc	0.0001124	Pa×s	485.25	Joback Method
dvisc	0.0000741	Pa×s	514.28	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=R239586&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume