Phenol, 4-ethenyl-, acetate

Other names:	Phenol, 4-ethenyl-, 1-acetate
	4-Acetoxystyrene
	p-Acetoxystyrene
Inchi:	InChI=1S/C10H10O2/c1-3-9-4-6-10(7-5-9)12-8(2)11/h3-7H,1H2,2H3
InchiKey:	JAMNSIXSLVPNLC-UHFFFAOYSA-N
Formula:	C10H10O2
SMILES:	C=Cc1ccc(OC(C)=O)cc1
Mol. weight [g/mol]:	162.19
CAS:	2628-16-2

Physical Properties

Property code	Value	Unit	Source
gf	-9.98	kJ/mol	Joback Method
hf	-144.04	kJ/mol	Joback Method
hfus	16.82	kJ/mol	Joback Method
hvap	49.28	kJ/mol	Joback Method
log10ws	-2.61		Crippen Method
logp	2.255		Crippen Method
mcvol	131.140	ml/mol	McGowan Method
pc	3177.55	kPa	Joback Method
rinpol	1313.00		NIST Webbook
rinpol	1313.00		NIST Webbook
tb	532.83	K	Joback Method
tc	751.29	K	Joback Method
tf	311.80	K	Joback Method
vc	0.492	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	281.47	J/mol×K	532.83	Joback Method
cpg	294.02	J/mol×K	569.24	Joback Method
cpg	305.84	J/mol×K	605.65	Joback Method
cpg	316.97	J/mol×K	642.06	Joback Method

cpg	327.40	J/mol×K	678.47	Joback Method
cpg	337.18	J/mol×K	714.88	Joback Method
cpg	346.30	J/mol×K	751.29	Joback Method
dvisc	0.0016570	Pa×s	311.80	Joback Method
dvisc	0.0009841	Pa×s	348.64	Joback Method
dvisc	0.0006457	Pa×s	385.48	Joback Method
dvisc	0.0004560	Pa×s	422.31	Joback Method
dvisc	0.0003405	Pa×s	459.15	Joback Method
dvisc	0.0002655	Pa×s	495.99	Joback Method
dvisc	0.0002143	Pa×s	532.83	Joback Method

Sources

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=C2628162&Units=SI

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

Latest version available from: