4-vinylphenol

Other names:	p-vinylphenol
	Phenol, 4-ethenyl-
	para-Vinyl phenol
	p-hydroxystyrene
	4-Ethenylphenol
	4-hydroxystyrene
Inchi:	InChI=1S/C8H8O/c1-2-7-3-5-8(9)6-4-7/h2-6,9H,1H2
InchiKey:	FUGYGGDSWSUORM-UHFFFAOYSA-N
Formula:	C8H8O
SMILES:	C=Cc1ccc(O)cc1
Mol. weight [g/mol]:	120.15
CAS:	2628-17-3

Physical Properties

Property code	Value	Unit	Source
gf	62.11	kJ/mol	Joback Method
hf	-23.80	kJ/mol	Joback Method
hfus	15.02	kJ/mol	Joback Method
hvap	48.02	kJ/mol	Joback Method
log10ws	-1.84		Crippen Method
logp	2.035		Crippen Method
mcvol	101.390	ml/mol	McGowan Method
pc	4665.71	kPa	Joback Method
rinpol	1199.00		NIST Webbook
rinpol	1247.00		NIST Webbook
rinpol	1188.00		NIST Webbook
rinpol	1237.00		NIST Webbook
rinpol	1229.00		NIST Webbook
rinpol	1229.00		NIST Webbook
rinpol	1200.00		NIST Webbook
rinpol	1211.00		NIST Webbook
rinpol	1173.00		NIST Webbook
rinpol	1190.00		NIST Webbook
rinpol	1240.00		NIST Webbook
rinpol	1180.00		NIST Webbook
rinpol	1190.00		NIST Webbook
rinpol	1190.00		NIST Webbook

rinpol	1190.00	NIST Webbook
rinpol	1219.00	NIST Webbook
rinpol	1224.00	NIST Webbook
rinpol	1199.00	NIST Webbook
rinpol	1212.00	NIST Webbook
rinpol	1224.00	NIST Webbook
rinpol	1216.00	NIST Webbook
rinpol	1223.00	NIST Webbook
rinpol	1229.00	NIST Webbook
rinpol	1194.00	NIST Webbook
rinpol	1219.00	NIST Webbook
rinpol	208.70	NIST Webbook
rinpol	1219.00	NIST Webbook
rinpol	1216.00	NIST Webbook
rinpol	208.70	NIST Webbook
rinpol	1190.00	NIST Webbook
ripol	2358.00	NIST Webbook
ripol	2391.00	NIST Webbook
ripol	2409.00	NIST Webbook
ripol	2353.00	NIST Webbook
ripol	2372.00	NIST Webbook
ripol	2411.00	NIST Webbook
ripol	2417.00	NIST Webbook
ripol	2379.00	NIST Webbook
ripol	2377.00	NIST Webbook
ripol	2398.00	NIST Webbook
ripol	2404.00	NIST Webbook
ripol	2384.00	NIST Webbook
ripol	2369.00	NIST Webbook
ripol	2340.00	NIST Webbook
ripol	2352.00	NIST Webbook
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ripol	2377.00	NIST Webbook
ripol	2397.00	NIST Webbook
ripol	2378.00	NIST Webbook
ripol	2406.00	NIST Webbook
ripol	2422.00	NIST Webbook
ripol	2404.00	NIST Webbook
ripol	2358.00	NIST Webbook

ripol	2427.00		NIST Webbook
ripol	2425.00		NIST Webbook
ripol	2427.00		NIST Webbook
ripol	2422.00		NIST Webbook
ripol	2415.00		NIST Webbook
ripol	2372.00		NIST Webbook
ripol	2391.00		NIST Webbook
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ripol	2340.00		NIST Webbook
ripol	2343.00		NIST Webbook
ripol	2409.00		NIST Webbook
ripol	2386.00		NIST Webbook
ripol	2404.00		NIST Webbook
ripol	2360.00		NIST Webbook
ripol	2362.00		NIST Webbook
ripol	2404.00		NIST Webbook
ripol	2371.00		NIST Webbook
ripol	2420.00		NIST Webbook
ripol	2357.00		NIST Webbook
ripol	2372.00		NIST Webbook
ripol	2384.00		NIST Webbook
ripol	2379.00		NIST Webbook
ripol	2397.00		NIST Webbook
ripol	2406.00		NIST Webbook
ripol	2425.00		NIST Webbook
ripol	2420.00		NIST Webbook
tb	486.42	K	Joback Method
tc	717.70	K	Joback Method
tf	316.30	K	Joback Method
vc	0.323	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	207.55	J/mol×K	486.42	Joback Method
cpg	218.69	J/mol×K	524.97	Joback Method
cpg	228.90	J/mol×K	563.51	Joback Method
cpg	238.27	J/mol×K	602.06	Joback Method
cpg	246.89	J/mol×K	640.60	Joback Method
cpg	254.86	J/mol×K	679.15	Joback Method

cpg	262.25	J/mol×K	717.70	Joback Method
dvisc	0.0050655	Pa×s	316.30	Joback Method
dvisc	0.0020148	Pa×s	344.65	Joback Method
dvisc	0.0009219	Pa×s	373.01	Joback Method
dvisc	0.0004711	Pa×s	401.36	Joback Method
dvisc	0.0002631	Pa×s	429.71	Joback Method
dvisc	0.0001579	Pa×s	458.07	Joback Method
dvisc	0.0001006	Pa×s	486.42	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=C2628173&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