

Benzene, 1-ethenyl-4-phenoxy-

Other names:	p-Phenoxystyrene 4-Phenoxystyrene
Inchi:	InChI=1S/C14H12O/c1-2-12-8-10-14(11-9-12)15-13-6-4-3-5-7-13/h2-11H,1H2
InchiKey:	UULPGUKSBAXNJN-UHFFFAOYSA-N
Formula:	C14H12O
SMILES:	<chem>C=Cc1ccc(Oc2ccccc2)cc1</chem>
Mol. weight [g/mol]:	196.24
CAS:	4973-29-9

Physical Properties

Property code	Value	Unit	Source
gf	265.03	kJ/mol	Joback Method
hf	122.51	kJ/mol	Joback Method
hfus	19.62	kJ/mol	Joback Method
hvap	53.71	kJ/mol	Joback Method
log10ws	-3.93		Crippen Method
logp	4.122		Crippen Method
mvol	162.170	ml/mol	McGowan Method
pc	2799.47	kPa	Joback Method
tb	597.16	K	Joback Method
tc	839.52	K	Joback Method
tf	333.37	K	Joback Method
vc	0.603	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	376.86	J/molxK	597.16	Joback Method
cpg	393.09	J/molxK	637.55	Joback Method
cpg	408.11	J/molxK	677.95	Joback Method
cpg	421.98	J/molxK	718.34	Joback Method
cpg	434.75	J/molxK	758.73	Joback Method
cpg	446.50	J/molxK	799.13	Joback Method
cpg	457.26	J/molxK	839.52	Joback Method

dvisc	0.0014038	Paxs	333.37	Joback Method
dvisc	0.0007746	Paxs	377.33	Joback Method
dvisc	0.0004839	Paxs	421.30	Joback Method
dvisc	0.0003304	Paxs	465.26	Joback Method
dvisc	0.0002410	Paxs	509.23	Joback Method
dvisc	0.0001848	Paxs	553.19	Joback Method
dvisc	0.0001473	Paxs	597.16	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C4973299&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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