Phenol, 4-(2-phenylethenyl)-

Other names:	Hydroxystlbene,4- 4-Hydroxyphenylstilbene 4-Hydroxystilbene 4-Stilbenol 4-[2-Phenylethenyl]phenol stilben-4-ol
Inchi:	InChI=1S/C14H12O/c15-14-10-8-13(9-11-14)7-6-12-4-2-1-3-5-12/h1-11,15H/b7-6+
InchiKey:	QVLMUEOXQBUPAH-VOTSOKGWSA-N
Formula:	C14H12O
SMILES:	Oc1ccc(C=Cc2ccccc2)cc1
Mol. weight [g/mol]:	196.24
CAS:	3839-46-1

Physical Properties

Property code	Value	Unit	Source
gf	217.42	kJ/mol	Joback Method
hf	80.68	kJ/mol	Joback Method
hfus	26.08	kJ/mol	Joback Method
hvap	64.28	kJ/mol	Joback Method
log10ws	-3.62		Crippen Method
logp	3.563		Crippen Method
mcvol	162.170	ml/mol	McGowan Method
pc	3464.28	kPa	Joback Method
rinpol	281.30		NIST Webbook
rinpol	281.30		NIST Webbook
tb	657.86	K	Joback Method
tc	917.58	K	Joback Method
tf	407.02	K	Joback Method
vc	0.549	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	404.38	J/mol×K	657.86	Joback Method

cpg	418.97	J/mol×K	701.15	Joback Method
cpg	432.33	J/mol×K	744.43	Joback Method
cpg	444.66	J/mol×K	787.72	Joback Method
cpg	456.14	J/mol×K	831.01	Joback Method
cpg	466.96	J/mol×K	874.29	Joback Method
cpg	477.31	J/mol×K	917.58	Joback Method
dvisc	0.0008923	Pa×s	407.02	Joback Method
dvisc	0.0003425	Pa×s	448.83	Joback Method
dvisc	0.0001547	Pa×s	490.63	Joback Method
dvisc	0.0000792	Pa×s	532.44	Joback Method
dvisc	0.0000447	Pa×s	574.25	Joback Method
dvisc	0.0000273	Pa×s	616.05	Joback Method
dvisc	0.0000177	Pa×s	657.86	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=C3839461&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
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point

vc: Critical Volume