

PHENOL, 4-(2-PHENYLETHENYL)-

Other names:	Hydroxystilbene,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=C/c2ccccc2)cc1
Mol. weight [g/mol]:	196.25

Physical Properties

Property code	Value	Unit	Source
af	0.5734		Cheméo Relay (1.0)
gf	217.42	kJ/mol	Joback Method
hf	67.75	kJ/mol	Cheméo Relay (1.0)
hfus	26.08	kJ/mol	Joback Method
hvap	98.36	kJ/mol	Cheméo Relay (1.0)
ie	7.54	eV	Cheméo Relay (1.0)
log10ws	-3.59		Cheméo Relay (1.0)
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	628.20	K	Cheméo Relay (1.0)
tc	888.62	K	Cheméo Relay (1.0)
tf	462.92	K	Cheméo Relay (1.0)
vc	0.567	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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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

Cheméo Relay (1.0, beta):

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C3839461&Units=SI>

Joback Method:

https://en.wikipedia.org/wiki/Joback_method

McGowan Method:

<http://link.springer.com/article/10.1007/BF02311772>

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Crippen Method:

https://www.chemeo.com/doc/models/crippen_log10ws

Cheméo Relay (1.0):

Legend

af:	Acentric Factor
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
ie:	Ionization energy
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

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<https://www.chemeo.com/cid/78-514-5/PHENOL-4-2-PHENYLETHENYL.pdf>

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