4,4'-Ethylidenediphenol

Other names: 1,1-Di-(4-hydroxyphenyl)ethane
Inchi: InChI=1S/C14H14O2/c1-10(11-2-6-13(15)7-3-11)12-4-8-14(16)9-5-12/h2-10,15-16H,1H3
InchiKey: HCNHNBLSNVSJTJ-UHFFFAOYSA-N
Formula: C14H14O2
SMILES: CC(c1ccc(O)cc1)c1ccc(O)cc1
Mol. weight [g/mol]: 214.26
CAS: 2081-08-5

Physical Properties

Property code	Value	Unit	Source
gf	-19.86	kJ/mol	Joback Method
hf	-219.13	kJ/mol	Joback Method
hfus	28.14	kJ/mol	Joback Method
hvap	76.95	kJ/mol	Joback Method
log10ws	-3.05		Crippen Method
logp	3.250		Crippen Method
mcvol	172.340	ml/mol	McGowan Method
pc	3935.71	kPa	Joback Method
rinpol	2122.00		NIST Webbook
rinpol	2122.00		NIST Webbook
tb	733.88	K	Joback Method
tc	994.78	K	Joback Method
tf	508.82	K	Joback Method
vc	0.529	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	474.90	J/mol×K	733.88	Joback Method
cpg	488.42	J/mol×K	777.36	Joback Method
cpg	501.13	J/mol×K	820.85	Joback Method
cpg	513.26	J/mol×K	864.33	Joback Method
cpg	525.04	J/mol×K	907.81	Joback Method
cpg	536.71	J/mol×K	951.29	Joback Method

cpg	548.50	J/mol×K	994.78	Joback Method
dvisc	0.0000626	Pa×s	508.82	Joback Method
dvisc	0.0000251	Pa×s	546.33	Joback Method
dvisc	0.0000114	Pa×s	583.84	Joback Method
dvisc	0.0000056	Pa×s	621.35	Joback Method
dvisc	0.0000030	Pa×s	658.86	Joback Method
dvisc	0.0000017	Pa×s	696.37	Joback Method
dvisc	0.0000011	Pa×s	733.88	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=C2081085&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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