

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:	HCNHNBSNVSTJ-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/molxK	733.88	Joback Method
cpg	488.42	J/molxK	777.36	Joback Method
cpg	501.13	J/molxK	820.85	Joback Method
cpg	513.26	J/molxK	864.33	Joback Method
cpg	525.04	J/molxK	907.81	Joback Method
cpg	536.71	J/molxK	951.29	Joback Method

cpg	548.50	J/molxK	994.78	Joback Method
dvisc	0.0000626	Paxs	508.82	Joback Method
dvisc	0.0000251	Paxs	546.33	Joback Method
dvisc	0.0000114	Paxs	583.84	Joback Method
dvisc	0.0000056	Paxs	621.35	Joback Method
dvisc	0.0000030	Paxs	658.86	Joback Method
dvisc	0.0000017	Paxs	696.37	Joback Method
dvisc	0.0000011	Paxs	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/ci9903071

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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