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

Physical Properties

Property code	Value	Unit	Source
hf	-180.42	kJ/mol	Cheméo Relay (1.0)
hfus	28.14	kJ/mol	Joback Method
hvap	116.67	kJ/mol	Cheméo Relay (1.0)
ie	7.99	eV	Cheméo Relay (1.0)
log10ws	-3.27		Cheméo Relay (1.0)
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	608.55	K	Cheméo Relay (1.0)
tc	899.92	K	Cheméo Relay (1.0)
tf	382.34	K	Cheméo Relay (1.0)
vc	0.590	m3/kmol	Cheméo Relay (1.0)

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

Cheméo Relay (1.0, beta):

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C2081085&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

cpg: Ideal gas heat capacity
dvisc: Dynamic viscosity
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