[1,1'-Biphenyl]-2,2'-diol, 3,3'-dimethoxy-5,5'-di-2-propenyl-

Other names: 2,2'-Biphenyldiol, 5,5'-diallyl-3,3'-dimethoxy-
Dehydrodieugenol
5,5'-Diallyl-3,3'-dimethoxy-[1,1'-biphenyl]-2,2'-diol

Inchi: InChI=1S/C20H22O4/c1-5-7-13-9-15(19(21)17(11-13)23-3)16-10-14(8-6-2)12-18(24-4)20

InchiKey: KETPSFSOGFKJJY-UHFFFAOYSA-N

Formula: C20H22O4

SMILES: C=CCc1cc(OC)c(O)c(-c2cc(CC=C)cc(OC)c2O)c1

Mol. weight [g/mol]: 326.39

CAS: 4433-08-3

Physical Properties

Property code	Value	Unit	Source
gf	-39.74	kJ/mol	Joback Method
hf	-397.15	kJ/mol	Joback Method
hfus	45.46	kJ/mol	Joback Method
hvap	96.82	kJ/mol	Joback Method
log10ws	-5.56		Crippen Method
logp	4.239		Crippen Method
mcvol	260.020	ml/mol	McGowan Method
pc	2088.84	kPa	Joback Method
rinpol	2707.70		NIST Webbook
rinpol	2707.70		NIST Webbook
tb	929.72	K	Joback Method
tc	1165.94	K	Joback Method
tf	682.46	K	Joback Method
vc	0.870	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	800.21	J/mol×K	929.72	Joback Method
cpg	815.23	J/mol×K	969.09	Joback Method
cpg	829.87	J/mol×K	1008.46	Joback Method
cpg	844.28	J/mol×K	1047.83	Joback Method

cpg	858.58	J/mol×K	1087.20	Joback Method
cpg	872.92	J/mol×K	1126.57	Joback Method
cpg	887.42	J/mol×K	1165.94	Joback Method
dvisc	0.0000019	Pa×s	682.46	Joback Method
dvisc	0.0000010	Pa×s	723.67	Joback Method
dvisc	0.0000006	Pa×s	764.88	Joback Method
dvisc	0.0000004	Pa×s	806.09	Joback Method
dvisc	0.0000002	Pa×s	847.30	Joback Method
dvisc	0.0000002	Pa×s	888.51	Joback Method
dvisc	0.0000001	Pa×s	929.72	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C4433083&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method: https://en.wikipedia.org/wiki/Joback_method

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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