Phenol, 4,4'-(1,3,3-trimethyl-1-propene-1,3-diyl)bis-

Other names: 4-Methyl-2,4-bis(para-hydroxyphenyl)pent-2-ene
2-Methyl-3-pentene, 2,4-bis(4-hydroxyphenyl)-
Inchi: InChI=1S/C18H20O2/c1-13(14-4-8-16(19)9-5-14)12-18(2,3)15-6-10-17(20)11-7-15/h4-12
InchiKey: GGWYYLOIWHKAJM-SEYXRHQNSA-N
Formula: C18H20O2
SMILES: CC(=CC(C)(C)c1ccc(O)cc1)c1ccc(O)cc1
Mol. weight [g/mol]: 268.35
CAS: 57244-54-9

Physical Properties

Property code	Value	Unit	Source
gf	90.77	kJ/mol	Joback Method
hf	-197.73	kJ/mol	Joback Method
hfus	33.50	kJ/mol	Joback Method
hvap	84.98	kJ/mol	Joback Method
log10ws	-4.35		Crippen Method
logp	4.479		Crippen Method
mcvol	224.400	ml/mol	McGowan Method
pc	2741.15	kPa	Joback Method
tb	826.65	K	Joback Method
tc	1087.53	K	Joback Method
tf	552.28	K	Joback Method
vc	0.730	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	665.04	J/mol×K	826.65	Joback Method
cpg	680.75	J/mol×K	870.13	Joback Method
cpg	696.04	J/mol×K	913.61	Joback Method
cpg	711.21	J/mol×K	957.09	Joback Method
cpg	726.57	J/mol×K	1000.57	Joback Method
cpg	742.46	J/mol×K	1044.05	Joback Method
cpg	759.18	J/mol×K	1087.53	Joback Method

Sources

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=C57244549&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume