Benzene, 1,1'-(1-methylethylidene)bis[4-methoxy-

Other names: 2,2-Bis(4'-methoxyphenyl)propane
1,1'-Propane-2,2-diylbis(4-methoxybenzene)
Inchi: InChI=1S/C17H20O2/c1-17(2,13-5-9-15(18-3)10-6-13)14-7-11-16(19-4)12-8-14/h5-12H,1
InchiKey: OJYIBEYSBXIQOP-UHFFFAOYSA-N
Formula: C17H20O2
SMILES: COc1ccc(C(C)(C)c2ccc(OC)cc2)cc1
Mol. weight [g/mol]: 256.34
CAS: 1568-83-8

Physical Properties

Property code	Value	Unit	Source
gf	90.66	kJ/mol	Joback Method
hf	-217.28	kJ/mol	Joback Method
hfus	22.05	kJ/mol	Joback Method
hvap	62.84	kJ/mol	Joback Method
log10ws	-4.32		Crippen Method
logp	4.030		Crippen Method
mcvol	214.610	ml/mol	McGowan Method
pc	2005.50	kPa	Joback Method
rinpol	2111.00		NIST Webbook
tb	693.29	K	Joback Method
tc	927.31	K	Joback Method
tf	406.11	K	Joback Method
vc	0.796	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	581.82	J/mol×K	693.29	Joback Method
cpg	600.01	J/mol×K	732.29	Joback Method
cpg	616.87	J/mol×K	771.30	Joback Method
cpg	632.44	J/mol×K	810.30	Joback Method
cpg	646.79	J/mol×K	849.30	Joback Method
cpg	659.97	J/mol×K	888.30	Joback Method

cpg	672.03	J/mol×K	927.31	Joback Method
dvisc	0.0007827	Pa×s	406.11	Joback Method
dvisc	0.0004241	Pa×s	453.97	Joback Method
dvisc	0.0002583	Pa×s	501.84	Joback Method
dvisc	0.0001715	Pa×s	549.70	Joback Method
dvisc	0.0001216	Pa×s	597.56	Joback Method
dvisc	0.0000907	Pa×s	645.43	Joback Method
dvisc	0.0000705	Pa×s	693.29	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1568838&Units=SI

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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