

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
mvol	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/molxK	693.29	Joback Method
cpg	659.97	J/molxK	888.30	Joback Method
cpg	646.79	J/molxK	849.30	Joback Method
cpg	632.44	J/molxK	810.30	Joback Method
cpg	616.87	J/molxK	771.30	Joback Method
cpg	600.01	J/molxK	732.29	Joback Method

cpg	672.03	J/molxK	927.31	Joback Method
dvisc	0.0000705	Paxs	693.29	Joback Method
dvisc	0.0000907	Paxs	645.43	Joback Method
dvisc	0.0001216	Paxs	597.56	Joback Method
dvisc	0.0001715	Paxs	549.70	Joback Method
dvisc	0.0002583	Paxs	501.84	Joback Method
dvisc	0.0004241	Paxs	453.97	Joback Method
dvisc	0.0007827	Paxs	406.11	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=C1568838&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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