

Methane, bis(p-methoxyphenyl)-

Other names:	4,4'-Dimethoxydiphenylmethane Methane, bis(4-methoxyphenyl)-
Inchi:	InChI=1S/C15H16O2/c1-16-14-7-3-12(4-8-14)11-13-5-9-15(17-2)10-6-13/h3-10H,11H2,1
InchiKey:	WECJUPODCKXNQK-UHFFFAOYSA-N
Formula:	C15H16O2
SMILES:	COc1ccc(Cc2ccc(OC)cc2)cc1
Mol. weight [g/mol]:	228.29
CAS:	726-18-1

Physical Properties

Property code	Value	Unit	Source
gf	70.98	kJ/mol	Joback Method
hf	-167.25	kJ/mol	Joback Method
hfus	24.29	kJ/mol	Joback Method
hvap	59.68	kJ/mol	Joback Method
log10ws	-3.81		Crippen Method
logp	3.295		Crippen Method
mvol	186.430	ml/mol	McGowan Method
pc	2356.49	kPa	Joback Method
tb	650.76	K	Joback Method
tc	880.64	K	Joback Method
tf	381.15	K	Joback Method
vc	0.696	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	473.60	J/molxK	650.76	Joback Method
cpg	490.34	J/molxK	689.07	Joback Method
cpg	505.98	J/molxK	727.39	Joback Method
cpg	520.53	J/molxK	765.70	Joback Method
cpg	534.02	J/molxK	804.01	Joback Method
cpg	546.46	J/molxK	842.32	Joback Method
cpg	557.87	J/molxK	880.64	Joback Method

dvisc	0.0008407	Paxs	381.15	Joback Method
dvisc	0.0004927	Paxs	426.09	Joback Method
dvisc	0.0003197	Paxs	471.02	Joback Method
dvisc	0.0002237	Paxs	515.96	Joback Method
dvisc	0.0001658	Paxs	560.89	Joback Method
dvisc	0.0001284	Paxs	605.83	Joback Method
dvisc	0.0001030	Paxs	650.76	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C726181&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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