Methane, bis(4-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

Physical Properties

Property code	Value	Unit	Source
hf	-119.62	kJ/mol	Cheméo Relay (1.0)
hfus	24.29	kJ/mol	Joback Method
hvap	89.71	kJ/mol	Cheméo Relay (1.0)
ie	8.00	eV	Cheméo Relay (1.0)
log10ws	-4.82		Cheméo Relay (1.0)
logp	3.295		Crippen Method
mcvol	186.430	ml/mol	McGowan Method
pc	2356.49	kPa	Joback Method
tb	628.07	K	Cheméo Relay (1.0)
tc	831.10	K	Cheméo Relay (1.0)
tf	337.86	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	473.60	J/mol×K	650.76	Joback Method
cpg	490.34	J/mol×K	689.07	Joback Method
cpg	505.98	J/mol×K	727.39	Joback Method
cpg	520.53	J/mol×K	765.70	Joback Method
cpg	534.02	J/mol×K	804.01	Joback Method
cpg	546.46	J/mol×K	842.32	Joback Method
cpg	557.87	J/mol×K	880.64	Joback Method
dvisc	0.0008407	Pa×s	381.15	Joback Method
dvisc	0.0004927	Pa×s	426.09	Joback Method

dvisc	0.0003197	Pa×s	471.02	Joback Method
dvisc	0.0002237	Pa×s	515.96	Joback Method
dvisc	0.0001658	Pa×s	560.89	Joback Method
dvisc	0.0001284	Pa×s	605.83	Joback Method
dvisc	0.0001030	Pa×s	650.76	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C726181&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
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