Benzene, 1-methoxy-4-(2-phenylethenyl)-

Other names:	Anisole, p-styryl-
	p-Methoxystilbene
	4-Methoxystilbene
	1-Methoxy-4-(2-phenylethenyl)benzene
	1-(p-Methoxyphenyl)-2-phenylethene
Inchi:	InChI=1S/C15H14O/c1-16-15-11-9-14(10-12-15)8-7-13-5-3-2-4-6-13/h2-12H,1H3/b8-7+
InchiKey:	XWYXLYCDZKRCAD-BQYQJAHWSA-N
Formula:	C15H14O
SMILES:	COc1ccc(C=Cc2ccccc2)cc1
Mol. weight [g/mol]:	210.27
CAS:	1142-15-0

Physical Properties

Property code	Value	Unit	Source
gf	265.83	kJ/mol	Joback Method
hf	93.66	kJ/mol	Joback Method
hfus	23.69	kJ/mol	Joback Method
hvap	56.57	kJ/mol	Joback Method
log10ws	-4.20		Crippen Method
logp	3.866		Crippen Method
mcvol	176.260	ml/mol	McGowan Method
pc	2561.10	kPa	Joback Method
tb	627.52	K	Joback Method
tc	870.03	K	Joback Method
tf	341.32	K	Joback Method
vc	0.657	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	426.75	J/mol×K	627.52	Joback Method
cpg	499.19	J/mol×K	829.61	Joback Method
cpg	486.94	J/mol×K	789.19	Joback Method
cpg	473.65	J/mol×K	748.77	Joback Method

cpg	459.23	J/mol×K	708.36	Joback Method
cpg	443.62	J/mol×K	667.94	Joback Method
cpg	510.47	J/mol×K	870.03	Joback Method
dvisc	0.0001119	Pa×s	627.52	Joback Method
dvisc	0.0001424	Pa×s	579.82	Joback Method
dvisc	0.0001892	Pa×s	532.12	Joback Method
dvisc	0.0002658	Pa×s	484.42	Joback Method
dvisc	0.0004021	Pa×s	436.72	Joback Method
dvisc	0.0006734	Pa×s	389.02	Joback Method
dvisc	0.0013028	Pa×s	341.32	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=C1142150&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
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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