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	443.62	J/mol×K	667.94	Joback Method
cpg	459.23	J/mol×K	708.36	Joback Method
cpg	473.65	J/mol×K	748.77	Joback Method

cpg	486.94	J/mol×K	789.19	Joback Method
cpg	499.19	J/mol×K	829.61	Joback Method
cpg	510.47	J/mol×K	870.03	Joback Method
dvisc	0.0013028	Pa×s	341.32	Joback Method
dvisc	0.0006734	Pa×s	389.02	Joback Method
dvisc	0.0004021	Pa×s	436.72	Joback Method
dvisc	0.0002658	Pa×s	484.42	Joback Method
dvisc	0.0001892	Pa×s	532.12	Joback Method
dvisc	0.0001424	Pa×s	579.82	Joback Method
dvisc	0.0001119	Pa×s	627.52	Joback Method

Sources

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
Joback Method: https://en.wikipedia.org/wiki/Joback_method
McGowan Method: http://link.springer.com/article/10.1007/BF02311772

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