Benzene, 4-ethenyl-1,2-dimethoxy-

Other names:	3,4-Dimethoxystyrene
	1,2-Dimethoxy-4-vinylbenzene
	4-Ethenyl-1,2-dimethoxybenzene
	4-Vinyl-1,2-dimethoxybenzene
	Benzene, 1,2-dimethoxy, 4-vinyl
	4-Vinylveratrole
	Styrene, 3,4-dimethoxy-
Inchi:	InChI=1S/C10H12O2/c1-4-8-5-6-9(11-2)10(7-8)12-3/h4-7H,1H2,2-3H3
InchiKey:	NJXYTXADXSRFTJ-UHFFFAOYSA-N
Formula:	C10H12O2
SMILES:	C=Cc1ccc(OC)c(OC)c1
Mol. weight [g/mol]:	164.20
CAS:	6380-23-0

Physical Properties

Property code	Value	Unit	Source
gf	4.31	kJ/mol	Joback Method
hf	-175.15	kJ/mol	Joback Method
hfus	16.02	kJ/mol	Joback Method
hvap	45.60	kJ/mol	Joback Method
log10ws	-2.53		Crippen Method
logp	2.347		Crippen Method
mcvol	135.440	ml/mol	McGowan Method
pc	2862.74	kPa	Joback Method
rinpol	1379.00		NIST Webbook
rinpol	1367.60		NIST Webbook
rinpol	1365.00		NIST Webbook
rinpol	1354.00		NIST Webbook
rinpol	1374.00		NIST Webbook
rinpol	1370.00		NIST Webbook
rinpol	1368.00		NIST Webbook
ripol	2039.00		NIST Webbook
ripol	1998.00		NIST Webbook
ripol	2014.00		NIST Webbook
ripol	2040.00		NIST Webbook
tb	506.36	K	Joback Method
tc	714.63	K	Joback Method

tf	296.62	K	Joback Method
vc	0.504	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	288.07	J/mol×K	506.36	Joback Method
cpg	347.32	J/mol×K	679.92	Joback Method
cpg	336.60	J/mol×K	645.20	Joback Method
cpg	325.31	J/mol×K	610.49	Joback Method
cpg	313.46	J/mol×K	575.78	Joback Method
cpg	301.04	J/mol×K	541.07	Joback Method
cpg	357.48	J/mol×K	714.63	Joback Method
dvisc	0.0001550	Pa×s	506.36	Joback Method
dvisc	0.0001892	Pa×s	471.40	Joback Method
dvisc	0.0002385	Pa×s	436.45	Joback Method
dvisc	0.0003129	Pa×s	401.49	Joback Method
dvisc	0.0004324	Pa×s	366.53	Joback Method
dvisc	0.0006398	Pa×s	331.58	Joback Method
dvisc	0.0010382	Pa×s	296.62	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	395.70	K	1.30	NIST Webbook

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=C6380230&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
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume