Benzene, [(2-methyl-2-propenyl)oxy]-

Other names:	Ether, 2-methylallyl phenyl
	Methallyl phenyl ether
	2-Methylallyl phenyl ether
	(2-methylallyloxy)benzene
Inchi:	InChI=1S/C10H12O/c1-9(2)8-11-10-6-4-3-5-7-10/h3-7H,1,8H2,2H3
InchiKey:	LECDNXOCIPRJNJ-UHFFFAOYSA-N
Formula:	C10H12O
SMILES:	C=C(C)COc1ccccc1
Mol. weight [g/mol]:	148.20
CAS:	5820-22-4

Physical Properties

Property code	Value	Unit	Source
gf	120.02	kJ/mol	Joback Method
hf	-29.78	kJ/mol	Joback Method
hfus	14.29	kJ/mol	Joback Method
hvap	41.95	kJ/mol	Joback Method
log10ws	-2.70		Crippen Method
logp	2.642		Crippen Method
mcvol	129.570	ml/mol	McGowan Method
pc	3028.94	kPa	Joback Method
tb	448.70	K	NIST Webbook
tc	685.55	K	Joback Method
tf	239.84 ± 0.20	K	NIST Webbook
vc	0.487	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	263.68	J/mol×K	473.86	Joback Method
cpg	277.96	J/mol×K	509.14	Joback Method
cpg	291.45	J/mol×K	544.42	Joback Method
cpg	304.18	J/mol×K	579.71	Joback Method
cpg	316.18	J/mol×K	614.99	Joback Method

cpg	327.46	J/mol×K	650.27	Joback Method
cpg	338.06	J/mol×K	685.55	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5820224&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

Legend

cpg:	Ideal gas heat capacity
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