Benzene, 1-methyl-4-[(2-propenyloxy)methyl]-

Other names:	Allyl p-methylbenzyl ether
	Allyl 4-methylbenzyl ether
	Ether, allyl p-methylbenzyl
Inchi:	InChI=1S/C11H14O/c1-3-8-12-9-11-6-4-10(2)5-7-11/h3-7H,1,8-9H2,2H3
InchiKey:	GWYIZVBRIVPDIQ-UHFFFAOYSA-N
Formula:	C11H14O
SMILES:	C=CCOCc1ccc(C)cc1
Mol. weight [g/mol]:	162.23
CAS:	42463-79-6

Physical Properties

Property code	Value	Unit	Source
gf	127.36	kJ/mol	Joback Method
hf	-52.10	kJ/mol	Joback Method
hfus	17.81	kJ/mol	Joback Method
hvap	44.76	kJ/mol	Joback Method
log10ws	-3.02		Crippen Method
logp	2.698		Crippen Method
mcvol	143.660	ml/mol	McGowan Method
pc	2676.31	kPa	Joback Method
ripol	1686.00		NIST Webbook
ripol	1686.00		NIST Webbook
tb	501.84	K	Joback Method
tc	707.72	K	Joback Method
tf	273.14	K	Joback Method
vc	0.542	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	307.91	J/mol×K	501.84	Joback Method
cpg	322.54	J/mol×K	536.15	Joback Method
cpg	336.42	J/mol×K	570.47	Joback Method
cpg	349.58	J/mol×K	604.78	Joback Method

cpg	362.04	J/mol×K	639.10	Joback Method
cpg	373.80	J/mol×K	673.41	Joback Method
cpg	384.90	J/mol×K	707.72	Joback Method
dvisc	0.0018194	Pa×s	273.14	Joback Method
dvisc	0.0009777	Pa×s	311.26	Joback Method
dvisc	0.0006016	Pa×s	349.37	Joback Method
dvisc	0.0004073	Pa×s	387.49	Joback Method
dvisc	0.0002957	Pa×s	425.61	Joback Method
dvisc	0.0002263	Pa×s	463.72	Joback Method
dvisc	0.0001804	Pa×s	501.84	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C42463796&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
ripol: Polar retention indices
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume

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