

1-Propene, 1-(ethenyloxy)-, (Z)-

Inchi:	InChI=1S/C5H8O/c1-3-5-6-4-2/h3-5H,2H2,1H3/b5-3-
InchiKey:	YKLWPGCWVBBCTO-HYXAFXHYSA-N
Formula:	C5H8O
SMILES:	C=COC=CC
Mol. weight [g/mol]:	84.12
CAS:	24268-09-5

Physical Properties

Property code	Value	Unit	Source
gf	54.28	kJ/mol	Joback Method
hf	-36.10	kJ/mol	Joback Method
hfus	8.82	kJ/mol	Joback Method
hvap	28.42	kJ/mol	Joback Method
log10ws	-1.70		Crippen Method
logp	1.680		Crippen Method
mcvol	78.580	ml/mol	McGowan Method
pc	3805.69	kPa	Joback Method
tb	337.06	K	Joback Method
tc	514.18	K	Joback Method
tf	161.50	K	Joback Method
vc	0.294	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	121.28	J/molxK	337.06	Joback Method
cpg	129.12	J/molxK	366.58	Joback Method
cpg	136.65	J/molxK	396.10	Joback Method
cpg	143.88	J/molxK	425.62	Joback Method
cpg	150.81	J/molxK	455.14	Joback Method
cpg	157.45	J/molxK	484.66	Joback Method
cpg	163.82	J/molxK	514.18	Joback Method
dvisc	0.0022496	Paxs	161.50	Joback Method
dvisc	0.0010380	Paxs	190.76	Joback Method

dvisc	0.0005883	Paxs	220.02	Joback Method
dvisc	0.0003810	Paxs	249.28	Joback Method
dvisc	0.0002703	Paxs	278.54	Joback Method
dvisc	0.0002047	Paxs	307.80	Joback Method
dvisc	0.0001627	Paxs	337.06	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C24268095&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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