1-Propene, 3-propoxy-

Other names:	Ether, allyl propyl
	Allyl propyl ether
	Propyl allyl ether
	Allyl n-propyl ether
	Allypropyl ether
Inchi:	InChI=1S/C6H12O/c1-3-5-7-6-4-2/h3H,1,4-6H2,2H3
InchiKey:	LWJHSQQHGRQCKO-UHFFFAOYSA-N
Formula:	C6H12O
SMILES:	C=CCOCCC
Mol. weight [g/mol]:	100.16
CAS:	1471-03-0

Physical Properties

Property code	Value	Unit	Source
gf	-17.52	kJ/mol	Joback Method
hf	-173.96	kJ/mol	Joback Method
hfus	11.20	kJ/mol	Joback Method
hvap	30.69	kJ/mol	Joback Method
log10ws	-1.27		Crippen Method
logp	1.599		Crippen Method
mcvol	96.970	ml/mol	McGowan Method
pc	3195.54	kPa	Joback Method
tb	364.20	K	NIST Webbook
tc	523.68	K	Joback Method
tf	177.85	K	Joback Method
vc	0.370	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	213.21	J/mol×K	495.69	Joback Method
cpg	204.82	J/mol×K	467.71	Joback Method
cpg	196.15	J/mol×K	439.73	Joback Method
cpg	187.18	J/mol×K	411.75	Joback Method

cpg	177.92	J/mol×K	383.76	Joback Method
cpg	168.37	J/mol×K	355.78	Joback Method
cpg	221.32	J/mol×K	523.68	Joback Method
dvisc	0.0029205	Pa×s	177.85	Joback Method
dvisc	0.0002123	Pa×s	355.78	Joback Method
dvisc	0.0002694	Pa×s	326.12	Joback Method
dvisc	0.0003585	Pa×s	296.47	Joback Method
dvisc	0.0005086	Pa×s	266.81	Joback Method
dvisc	0.0007872	Pa×s	237.16	Joback Method
dvisc	0.0013807	Pa×s	207.51	Joback Method
hvapt	37.50	kJ/mol	344.50	NIST Webbook
hvapt	36.40	kJ/mol	299.00	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=C1471030&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
hvapt: Enthalpy of vaporization at a given temperature
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