

Propane, 2-(ethenyloxy)-

Other names:	1-Isopropoxyethylene 2-(Ethenyloxy)propane 2-(vinylloxy)propane CH ₂ =CHOCH(CH ₃) ₂ Ether, isopropyl vinyl Isopropoxyethene Isopropoxyethylene Isopropyl vinyl ether Vinyl isopropyl ether
Inchi:	InChI=1S/C5H10O/c1-4-6-5(2)3/h4-5H,1H2,2-3H3
InchiKey:	GNUGVECARVKIPH-UHFFFAOYSA-N
Formula:	C ₅ H ₁₀ O
SMILES:	C=COC(C)C
Mol. weight [g/mol]:	86.13
CAS:	926-65-8

Physical Properties

Property code	Value	Unit	Source
chl	-3181.00 ± 8.80	kJ/mol	NIST Webbook
chl	-3192.00 ± 0.80	kJ/mol	NIST Webbook
gf	-28.38	kJ/mol	Joback Method
hf	-174.00 ± 2.20	kJ/mol	NIST Webbook
hfl	-205.00 ± 0.80	kJ/mol	NIST Webbook
hfus	5.09	kJ/mol	Joback Method
hvap	31.00 ± 2.00	kJ/mol	NIST Webbook
ie	8.90	eV	NIST Webbook
log10ws	-1.46		Crippen Method
logp	1.555		Crippen Method
mcvol	82.880	ml/mol	McGowan Method
pc	3607.21	kPa	Joback Method
tb	332.46	K	Joback Method
tc	504.28	K	Joback Method
tf	151.58	K	Joback Method
vc	0.308	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	135.00	J/molxK	332.46	Joback Method
cpg	143.36	J/molxK	361.10	Joback Method
cpg	151.48	J/molxK	389.73	Joback Method
cpg	159.34	J/molxK	418.37	Joback Method
cpg	166.96	J/molxK	447.01	Joback Method
cpg	174.33	J/molxK	475.64	Joback Method
cpg	181.47	J/molxK	504.28	Joback Method
dvisc	0.0045847	Paxs	151.58	Joback Method
dvisc	0.0017577	Paxs	181.73	Joback Method
dvisc	0.0008853	Paxs	211.87	Joback Method
dvisc	0.0005290	Paxs	242.02	Joback Method
dvisc	0.0003542	Paxs	272.17	Joback Method
dvisc	0.0002570	Paxs	302.31	Joback Method
dvisc	0.0001976	Paxs	332.46	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C926658&Units=SI
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure

Legend

chl:	Standard liquid enthalpy of combustion
cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfl:	Liquid phase enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions

h_{vap}:	Enthalpy of vaporization at standard conditions
i_e:	Ionization energy
log₁₀w_s:	Log10 of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
m_{cvol}:	McGowan's characteristic volume
p_c:	Critical Pressure
t_b:	Normal Boiling Point Temperature
t_c:	Critical Temperature
t_f:	Normal melting (fusion) point
v_c:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/21-728-0/Propane-2-ethenyloxy.pdf>

Generated by Cheméo on 2022-12-05 10:41:59.26193867 +0000 UTC m=+233281.998804374.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.