Propane, 2,2-diallyloxy

Other names:	Propane, 2,2-di(2-propenyloxy) 3,3'-[(1-methylethylidene)bis(oxy)]bispropene
Inchi:	InChI=1S/C9H16O2/c1-5-7-10-9(3,4)11-8-6-2/h5-6H,1-2,7-8H2,3-4H3
InchiKey:	FMEUTDDJZQKSOU-UHFFFAOYSA-N
Formula:	C9H16O2
SMILES:	C=CCOC(C)(C)OCC=C
Mol. weight [g/mol]:	156.22
CAS:	35219-73-9

Physical Properties

Property code	Value	Unit	Source
gf	-6.58	kJ/mol	Joback Method
hf	-251.42	kJ/mol	Joback Method
hfus	11.47	kJ/mol	Joback Method
hvap	37.81	kJ/mol	Joback Method
log10ws	-2.08		Crippen Method
logp	2.128		Crippen Method
mcvol	140.810	ml/mol	McGowan Method
pc	2467.81	kPa	Joback Method
rinpol	893.00		NIST Webbook
rinpol	893.00		NIST Webbook
rinpol	903.00		NIST Webbook
tb	440.29	K	Joback Method
tc	620.69	K	Joback Method
tf	234.55	K	Joback Method
vc	0.526	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	294.01	J/mol×K	440.29	Joback Method
cpg	307.72	J/mol×K	470.36	Joback Method
cpg	320.83	J/mol×K	500.42	Joback Method
cpg	333.36	J/mol×K	530.49	Joback Method

cpg	345.32	J/mol×K	560.56	Joback Method
cpg	356.73	J/mol×K	590.63	Joback Method
cpg	367.61	J/mol×K	620.69	Joback Method
dvisc	0.0038253	Pa×s	234.55	Joback Method
dvisc	0.0016808	Pa×s	268.84	Joback Method
dvisc	0.0008895	Pa×s	303.13	Joback Method
dvisc	0.0005358	Pa×s	337.42	Joback Method
dvisc	0.0003543	Pa×s	371.71	Joback Method
dvisc	0.0002513	Pa×s	406.00	Joback Method
dvisc	0.0001880	Pa×s	440.29	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C35219739&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
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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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