1-(Prop-2-enyloxy)-2-(prop-2-enyl)-4,5-methylened

Other names: 5-Allyl-6-(allyloxy)-1,3-benzodioxole
Inchi: InChI=1S/C13H14O3/c1-3-5-10-7-12-13(16-9-15-12)8-11(10)14-6-4-2/h3-4,7-8H,1-2,5-6,
InchiKey: UITAOVXQEWVMGA-UHFFFAOYSA-N
Formula: C13H14O3
SMILES: C=CCOc1cc2c(cc1CC=C)OCO2
Mol. weight [g/mol]: 218.25
CAS: 259138-58-4

Physical Properties

Property code	Value	Unit	Source
gf	109.00	kJ/mol	Joback Method
hf	-161.75	kJ/mol	Joback Method
hfus	33.95	kJ/mol	Joback Method
hvap	59.11	kJ/mol	Joback Method
log10ws	-3.57		Crippen Method
logp	2.709		Crippen Method
mcvol	168.420	ml/mol	McGowan Method
pc	2581.96	kPa	Joback Method
rinpol	1705.00		NIST Webbook
rinpol	1705.00		NIST Webbook
rinpol	1705.00		NIST Webbook
tb	619.55	K	Joback Method
tc	836.70	K	Joback Method
tf	394.28	K	Joback Method
vc	0.635	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	424.99	J/mol×K	619.55	Joback Method
cpg	438.99	J/mol×K	655.74	Joback Method
cpg	452.12	J/mol×K	691.93	Joback Method
cpg	464.43	J/mol×K	728.13	Joback Method
cpg	475.97	J/mol×K	764.32	Joback Method

cpg	486.79	J/mol×K	800.51	Joback Method
cpg	496.95	J/mol×K	836.70	Joback Method
dvisc	0.0013798	Pa×s	394.28	Joback Method
dvisc	0.0009714	Pa×s	431.83	Joback Method
dvisc	0.0007234	Pa×s	469.37	Joback Method
dvisc	0.0005627	Pa×s	506.91	Joback Method
dvisc	0.0004532	Pa×s	544.46	Joback Method
dvisc	0.0003753	Pa×s	582.00	Joback Method
dvisc	0.0003180	Pa×s	619.55	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C259138584&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume