2-Allyl-4-chlorophenyl allyl ether

Inchi: InChI=1S/C12H13ClO/c1-3-5-10-9-11(13)6-7-12(10)14-8-4-2/h3-4,6-7,9H,1-2,5,8H2
InchiKey: BWKRYENOKBVWNT-UHFFFAOYSA-N
Formula: C12H13ClO
SMILES: C=CCOc1ccc(Cl)cc1CC=C
Mol. weight [g/mol]: 208.68
CAS: 51496-26-5

Physical Properties

Property code	Value	Unit	Source
gf	202.06	kJ/mol	Joback Method
hf	25.48	kJ/mol	Joback Method
hfus	22.92	kJ/mol	Joback Method
hvap	51.36	kJ/mol	Joback Method
log10ws	-4.04		Crippen Method
logp	3.633		Crippen Method
mcvol	165.690	ml/mol	McGowan Method
pc	2405.28	kPa	Joback Method
tb	563.81	K	Joback Method
tc	776.70	K	Joback Method
tf	325.09	K	Joback Method
vc	0.628	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	362.30	J/mol×K	563.81	Joback Method
cpg	376.04	J/mol×K	599.29	Joback Method
cpg	389.01	J/mol×K	634.77	Joback Method
cpg	401.23	J/mol×K	670.26	Joback Method
cpg	412.73	J/mol×K	705.74	Joback Method
cpg	423.52	J/mol×K	741.22	Joback Method
cpg	433.65	J/mol×K	776.70	Joback Method
dvisc	0.0012666	Pa×s	325.09	Joback Method
dvisc	0.0007571	Pa×s	364.88	Joback Method

dvisc	0.0005007	Pa×s	404.66	Joback Method
dvisc	0.0003566	Pa×s	444.45	Joback Method
dvisc	0.0002685	Pa×s	484.24	Joback Method
dvisc	0.0002111	Pa×s	524.02	Joback Method
dvisc	0.0001717	Pa×s	563.81	Joback Method

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=C51496265&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
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