Ether, allyl, 2,4-dichlorophenyl

Inchi: InChI=1S/C9H8Cl2O/c1-2-5-12-9-4-3-7(10)6-8(9)11/h2-4,6H,1,5H2
InchiKey: PGFLETJYXQVZSD-UHFFFAOYSA-N
Formula: C9H8Cl2O
SMILES: C=CCOc1ccc(Cl)cc1Cl
Mol. weight [g/mol]: 203.06
CAS: 5441-16-7

Physical Properties

Property code	Value	Unit	Source
gf	77.03	kJ/mol	Joback Method
hf	-53.77	kJ/mol	Joback Method
hfus	20.63	kJ/mol	Joback Method
hvap	49.74	kJ/mol	Joback Method
log10ws	-3.65		Crippen Method
logp	3.558		Crippen Method
mcvol	139.960	ml/mol	McGowan Method
pc	2986.06	kPa	Joback Method
tb	535.92	K	Joback Method
tc	759.97	K	Joback Method
tf	322.96	K	Joback Method
vc	0.528	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	271.97	J/mol×K	535.92	Joback Method
cpg	319.87	J/mol×K	722.63	Joback Method
cpg	311.48	J/mol×K	685.29	Joback Method
cpg	302.51	J/mol×K	647.95	Joback Method
cpg	292.95	J/mol×K	610.60	Joback Method
cpg	282.77	J/mol×K	573.26	Joback Method
cpg	327.69	J/mol×K	759.97	Joback Method
dvisc	0.0002086	Pa×s	535.92	Joback Method
dvisc	0.0002540	Pa×s	500.43	Joback Method

dvisc	0.0003187	Pa×s	464.93	Joback Method
dvisc	0.0004152	Pa×s	429.44	Joback Method
dvisc	0.0005674	Pa×s	393.95	Joback Method
dvisc	0.0008248	Pa×s	358.45	Joback Method
dvisc	0.0013018	Pa×s	322.96	Joback Method

Sources

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

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C5441167&Units=SI

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