(4-(2'-Propenyl)phenyl)phenyl ether

Inchi: InChI=1S/C15H14O2/c1-2-12-16-13-8-10-15(11-9-13)17-14-6-4-3-5-7-14/h2-11H,1,12H2
InchiKey: NAYOLUZVOCYYFZ-UHFFFAOYSA-N
Formula: C15H14O2
SMILES: C=CCOc1ccc(Oc2ccccc2)cc1
Mol. weight [g/mol]: 226.27

Physical Properties

Property code	Value	Unit	Source
gf	168.45	kJ/mol	Joback Method
hf	-30.35	kJ/mol	Joback Method
hfus	23.39	kJ/mol	Joback Method
hvap	58.35	kJ/mol	Joback Method
log10ws	-3.92		Crippen Method
logp	4.044		Crippen Method
mcvol	182.130	ml/mol	McGowan Method
pc	2492.52	kPa	Joback Method
rinpol	1744.00		NIST Webbook
rinpol	1744.00		NIST Webbook
tb	642.46	K	Joback Method
tc	876.21	K	Joback Method
tf	366.87	K	Joback Method
vc	0.676	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	451.98	J/mol×K	642.46	Joback Method
cpg	468.31	J/mol×K	681.42	Joback Method
cpg	483.48	J/mol×K	720.38	Joback Method
cpg	497.53	J/mol×K	759.33	Joback Method
cpg	510.49	J/mol×K	798.29	Joback Method
cpg	522.40	J/mol×K	837.25	Joback Method
cpg	533.29	J/mol×K	876.21	Joback Method
dvisc	0.0010202	Pa×s	366.87	Joback Method

dvisc	0.0005703	Pa×s	412.80	Joback Method
dvisc	0.0003582	Pa×s	458.73	Joback Method
dvisc	0.0002449	Pa×s	504.67	Joback Method
dvisc	0.0001783	Pa×s	550.60	Joback Method
dvisc	0.0001364	Pa×s	596.53	Joback Method
dvisc	0.0001084	Pa×s	642.46	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R569134&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