P-isopropylphenyl allyl ether

Inchi: InChI=1S/C12H16O/c1-4-9-13-12-7-5-11(6-8-12)10(2)3/h4-8,10H,1,9H2,2-3H3
InchiKey: QVGYGYMFMUBSHD-UHFFFAOYSA-N
Formula: C12H16O
SMILES: C=CCOc1ccc(C(C)C)cc1
Mol. weight [g/mol]: 176.25
CAS: 71029-37-3

Physical Properties

Property code	Value	Unit	Source
gf	133.34	kJ/mol	Joback Method
hf	-78.02	kJ/mol	Joback Method
hfus	16.87	kJ/mol	Joback Method
hvap	46.60	kJ/mol	Joback Method
log10ws	-3.47		Crippen Method
logp	3.375		Crippen Method
mcvol	157.750	ml/mol	McGowan Method
pc	2448.32	kPa	Joback Method
tb	524.28	K	Joback Method
tc	731.65	K	Joback Method
tf	269.41	K	Joback Method
vc	0.593	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	353.69	J/mol×K	524.28	Joback Method
cpg	369.61	J/mol×K	558.84	Joback Method
cpg	384.69	J/mol×K	593.40	Joback Method
cpg	398.97	J/mol×K	627.97	Joback Method
cpg	412.45	J/mol×K	662.53	Joback Method
cpg	425.16	J/mol×K	697.09	Joback Method
cpg	437.13	J/mol×K	731.65	Joback Method
dvisc	0.0024807	Pa×s	269.41	Joback Method
dvisc	0.0011520	Pa×s	311.89	Joback Method

dvisc	0.0006430	Pa×s	354.37	Joback Method
dvisc	0.0004066	Pa×s	396.85	Joback Method
dvisc	0.0002809	Pa×s	439.32	Joback Method
dvisc	0.0002072	Pa×s	481.80	Joback Method
dvisc	0.0001605	Pa×s	524.28	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=C71029373&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