propenyl benzyl ether

Inchi: InChI=1S/C10H12O/c1-2-8-11-9-10-6-4-3-5-7-10/h2-8H,9H2,1H3/b8-2+
InchiKey: QARNHIBOPBXNSX-KRXBUXKQSA-N
Formula: C10H12O
SMILES: CC=COCc1ccccc1
Mol. weight [g/mol]: 148.20

Physical Properties

Property code	Value	Unit	Source
gf	120.95	kJ/mol	Joback Method
hf	-28.20	kJ/mol	Joback Method
hfus	17.09	kJ/mol	Joback Method
hvap	42.50	kJ/mol	Joback Method
log10ws	-3.04		Crippen Method
logp	2.737		Crippen Method
mcvol	129.570	ml/mol	McGowan Method
pc	3045.68	kPa	Joback Method
ripol	1602.00		NIST Webbook
tb	481.46	K	Joback Method
tc	694.56	K	Joback Method
tf	246.03	K	Joback Method
vc	0.485	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	264.19	J/mol×K	481.46	Joback Method
cpg	278.49	J/mol×K	516.98	Joback Method
cpg	291.95	J/mol×K	552.49	Joback Method
cpg	304.62	J/mol×K	588.01	Joback Method
cpg	316.53	J/mol×K	623.53	Joback Method
cpg	327.71	J/mol×K	659.05	Joback Method
cpg	338.19	J/mol×K	694.56	Joback Method
dvisc	0.0025672	Pa×s	246.03	Joback Method
dvisc	0.0011843	Pa×s	285.27	Joback Method

dvisc	0.0006588	Pa×s	324.51	Joback Method
dvisc	0.0004159	Pa×s	363.75	Joback Method
dvisc	0.0002871	Pa×s	402.98	Joback Method
dvisc	0.0002117	Pa×s	442.22	Joback Method
dvisc	0.0001641	Pa×s	481.46	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=R314093&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
ripol: Polar retention indices
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume