P-phenylphenetole

Inchi: InChI=1S/C14H14O/c1-2-15-14-10-8-13(9-11-14)12-6-4-3-5-7-12/h3-11H,2H2,1H3
InchiKey: QRYTXFUBAZNNBP-UHFFFAOYSA-N
Formula: C14H14O
SMILES: CCOc1ccc(-c2ccccc2)cc1
Mol. weight [g/mol]: 198.26
CAS: 613-40-1

Physical Properties

Property code	Value	Unit	Source
gf	177.19	kJ/mol	Joback Method
hf	-2.92	kJ/mol	Joback Method
hfus	20.90	kJ/mol	Joback Method
hvap	54.38	kJ/mol	Joback Method
log10ws	-4.61		Crippen Method
logp	3.752		Crippen Method
mcvol	166.470	ml/mol	McGowan Method
pc	2679.08	kPa	Joback Method
tb	600.48	K	Joback Method
tc	837.55	K	Joback Method
tf	335.13	K	Joback Method
vc	0.622	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	397.75	J/mol×K	600.48	Joback Method
cpg	414.65	J/mol×K	639.99	Joback Method
cpg	430.37	J/mol×K	679.50	Joback Method
cpg	444.95	J/mol×K	719.01	Joback Method
cpg	458.45	J/mol×K	758.53	Joback Method
cpg	470.90	J/mol×K	798.04	Joback Method
cpg	482.36	J/mol×K	837.55	Joback Method
dvisc	0.0014623	Pa×s	335.13	Joback Method
dvisc	0.0007910	Pa×s	379.36	Joback Method

dvisc	0.0004865	Pa×s	423.58	Joback Method
dvisc	0.0003280	Pa×s	467.81	Joback Method
dvisc	0.0002367	Pa×s	512.03	Joback Method
dvisc	0.0001799	Pa×s	556.25	Joback Method
dvisc	0.0001424	Pa×s	600.48	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=C613401&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