1-Cyclopentenylphenylmethane

Inchi: InChI=1S/C12H14/c1-2-6-11(7-3-1)10-12-8-4-5-9-12/h1-3,6-8H,4-5,9-10H2
InchiKey: GSXCQGUOLCBELU-UHFFFAOYSA-N
Formula: C12H14
SMILES: C1=C(Cc2ccccc2)CCC1
Mol. weight [g/mol]: 158.24
CAS: 15507-35-4

Physical Properties

Property code	Value	Unit	Source
gf	227.16	kJ/mol	Joback Method
hf	72.65	kJ/mol	Joback Method
hfus	14.57	kJ/mol	Joback Method
hvap	46.10	kJ/mol	Joback Method
log10ws	-3.70		Crippen Method
logp	3.339		Crippen Method
mcvol	141.020	ml/mol	McGowan Method
pc	3069.34	kPa	Joback Method
tb	524.73	K	Joback Method
tc	760.24	K	Joback Method
tf	279.84	K	Joback Method
vc	0.527	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	314.26	J/mol×K	524.73	Joback Method
cpg	392.04	J/mol×K	720.99	Joback Method
cpg	378.76	J/mol×K	681.74	Joback Method
cpg	364.42	J/mol×K	642.49	Joback Method
cpg	348.94	J/mol×K	603.23	Joback Method
cpg	332.24	J/mol×K	563.98	Joback Method
cpg	404.33	J/mol×K	760.24	Joback Method
dvisc	0.0002515	Pa×s	524.73	Joback Method
dvisc	0.0003193	Pa×s	483.92	Joback Method

dvisc	0.0004236	Pa×s	443.10	Joback Method
dvisc	0.0005952	Pa×s	402.29	Joback Method
dvisc	0.0009031	Pa×s	361.47	Joback Method
dvisc	0.0015237	Pa×s	320.66	Joback Method
dvisc	0.0029944	Pa×s	279.84	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C15507354&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume