Cycloheptane, cycloheptylidene-

Inchi: InChI=1S/C14H24/c1-2-6-10-13(9-5-1)14-11-7-3-4-8-12-14/h1-12H2
InchiKey: JPWJQIKXWASNOD-UHFFFAOYSA-N
Formula: C14H24
SMILES: C1CCCC(=C2CCCCCC2)CC1
Mol. weight [g/mol]: 192.34
CAS: 51175-34-9

Physical Properties

Property code	Value	Unit	Source
gf	117.82	kJ/mol	Joback Method
hf	-160.45	kJ/mol	Joback Method
hfus	9.79	kJ/mol	Joback Method
hvap	50.19	kJ/mol	Joback Method
log10ws	-5.33		Crippen Method
logp	4.991		Crippen Method
mcvol	182.100	ml/mol	McGowan Method
pc	2426.65	kPa	Joback Method
tb	585.82	K	Joback Method
tc	830.58	K	Joback Method
tf	289.54	K	Joback Method
vc	0.657	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	475.57	J/mol×K	585.82	Joback Method
cpg	501.70	J/mol×K	626.61	Joback Method
cpg	526.05	J/mol×K	667.41	Joback Method
cpg	548.67	J/mol×K	708.20	Joback Method
cpg	569.61	J/mol×K	748.99	Joback Method
cpg	588.93	J/mol×K	789.78	Joback Method
cpg	606.67	J/mol×K	830.58	Joback Method
dvisc	0.0089932	Pa×s	289.54	Joback Method
dvisc	0.0024293	Pa×s	338.92	Joback Method

dvisc	0.0009154	Pa×s	388.30	Joback Method
dvisc	0.0004299	Pa×s	437.68	Joback Method
dvisc	0.0002354	Pa×s	487.06	Joback Method
dvisc	0.0001440	Pa×s	536.44	Joback Method
dvisc	0.0000957	Pa×s	585.82	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C51175349&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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