4-Cyclohept-3-enyl-cyclooctene

Inchi: InChI=1S/C15H24/c1-2-6-10-14(11-7-3-1)15-12-8-4-5-9-13-15/h2,6,8,12,14-15H,1,3-5,7,
InchiKey: YMXOKPYWEJZLIV-QHHAFSJGSA-N
Formula: C15H24
SMILES: C1=CC(C2CC=CCCCC2)CCCC1
Mol. weight [g/mol]: 204.35

Physical Properties

Property code	Value	Unit	Source
gf	147.94	kJ/mol	Joback Method
hf	-147.21	kJ/mol	Joback Method
hfus	14.42	kJ/mol	Joback Method
hvap	50.94	kJ/mol	Joback Method
log10ws	-5.11		Crippen Method
logp	4.869		Crippen Method
mcvol	191.890	ml/mol	McGowan Method
pc	2265.42	kPa	Joback Method
rinpol	1635.00		NIST Webbook
tb	592.83	K	Joback Method
tc	841.63	K	Joback Method
tf	264.53	K	Joback Method
vc	0.690	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	511.00	J/mol×K	592.83	Joback Method
cpg	632.62	J/mol×K	800.17	Joback Method
cpg	612.17	J/mol×K	758.70	Joback Method
cpg	589.83	J/mol×K	717.23	Joback Method
cpg	565.55	J/mol×K	675.76	Joback Method
cpg	539.29	J/mol×K	634.30	Joback Method
cpg	651.23	J/mol×K	841.63	Joback Method
dvisc	0.0000925	Pa×s	592.83	Joback Method
dvisc	0.0001401	Pa×s	538.11	Joback Method

dvisc	0.0002331	Pa×s	483.40	Joback Method
dvisc	0.0004417	Pa×s	428.68	Joback Method
dvisc	0.0010088	Pa×s	373.96	Joback Method
dvisc	0.0030583	Pa×s	319.25	Joback Method
dvisc	0.0146701	Pa×s	264.53	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=R136402&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume