4-Cyclooct-3-enyl-cyclononene

Inchi: InChI=1S/C17H28/c1-2-5-9-13-16(12-8-4-1)17-14-10-6-3-7-11-15-17/h4,8,10,14,16-17H,
InchiKey: XFNVOGZAXCEJKP-NDUUIVGLSA-N
Formula: C17H28
SMILES: C1=CC(C2CC=CCCCCC2)CCCCC1
Mol. weight [g/mol]: 232.40

Physical Properties

Property code	Value	Unit	Source
gf	140.58	kJ/mol	Joback Method
hf	-200.81	kJ/mol	Joback Method
hfus	15.40	kJ/mol	Joback Method
hvap	55.74	kJ/mol	Joback Method
log10ws	-5.95		Crippen Method
logp	5.649		Crippen Method
mcvol	220.070	ml/mol	McGowan Method
pc	1987.66	kPa	Joback Method
rinpol	1637.00		NIST Webbook
rinpol	1637.00		NIST Webbook
tb	647.13	K	Joback Method
tc	902.06	K	Joback Method
tf	280.03	K	Joback Method
vc	0.785	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	629.65	J/mol×K	647.13	Joback Method
cpg	758.78	J/mol×K	859.57	Joback Method
cpg	737.61	J/mol×K	817.08	Joback Method
cpg	714.14	J/mol×K	774.59	Joback Method
cpg	688.35	J/mol×K	732.11	Joback Method
cpg	660.19	J/mol×K	689.62	Joback Method
cpg	777.69	J/mol×K	902.06	Joback Method
dvisc	0.0000392	Pa×s	647.13	Joback Method

dvisc	0.0000639	Pa×s	585.95	Joback Method
dvisc	0.0001169	Pa×s	524.76	Joback Method
dvisc	0.0002509	Pa×s	463.58	Joback Method
dvisc	0.0006789	Pa×s	402.40	Joback Method
dvisc	0.0026250	Pa×s	341.21	Joback Method
dvisc	0.0183292	Pa×s	280.03	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R136437&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume