

4-Cyclohex-3-enyl-cyclooctene

Inchi:	InChI=1S/C14H22/c1-2-5-9-13(10-6-3-1)14-11-7-4-8-12-14/h2,5,7,11,13-14H,1,3-4,6,8-1
InchiKey:	MHPYKERWZJNNLN-GORDUTHDSA-N
Formula:	C14H22
SMILES:	C1=CCC(C2C=CCCC2)CCCC1
Mol. weight [g/mol]:	190.32

Physical Properties

Property code	Value	Unit	Source
gf	151.62	kJ/mol	Joback Method
hf	-120.41	kJ/mol	Joback Method
hfus	13.93	kJ/mol	Joback Method
hvap	48.54	kJ/mol	Joback Method
log10ws	-4.70		Crippen Method
logp	4.479		Crippen Method
mvol	177.800	ml/mol	McGowan Method
pc	2426.65	kPa	Joback Method
rinpol	1535.00		NIST Webbook
rinpol	1535.00		NIST Webbook
tb	565.68	K	Joback Method
tc	810.92	K	Joback Method
tf	256.78	K	Joback Method
vc	0.641	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	454.90	J/molxK	565.68	Joback Method
cpg	481.78	J/molxK	606.55	Joback Method
cpg	506.80	J/molxK	647.43	Joback Method
cpg	530.01	J/molxK	688.30	Joback Method
cpg	551.45	J/molxK	729.18	Joback Method
cpg	571.19	J/molxK	770.05	Joback Method
cpg	589.26	J/molxK	810.92	Joback Method
dvisc	0.0120754	Paxs	256.78	Joback Method

dvisc	0.0030564	Paxs	308.26	Joback Method
dvisc	0.0011463	Paxs	359.75	Joback Method
dvisc	0.0005496	Paxs	411.23	Joback Method
dvisc	0.0003103	Paxs	462.71	Joback Method
dvisc	0.0001965	Paxs	514.20	Joback Method
dvisc	0.0001352	Paxs	565.68	Joback Method

Sources

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=R136417&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

Legend

cp_g:	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:	Log ₁₀ of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m_{cvol}:	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

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