

Cyclohexyl-cycloheptane

Inchi:	InChI=1S/C13H24/c1-2-5-9-12(8-4-1)13-10-6-3-7-11-13/h12-13H,1-11H2
InchiKey:	GIFFMLIGKIVECO-UHFFFAOYSA-N
Formula:	C13H24
SMILES:	C1CCCC(C2CCCCC2)CC1
Mol. weight [g/mol]:	180.33

Physical Properties

Property code	Value	Unit	Source
gf	95.38	kJ/mol	Joback Method
hf	-209.17	kJ/mol	Joback Method
hfus	11.00	kJ/mol	Joback Method
hvap	45.56	kJ/mol	Joback Method
log10ws	-4.57		Crippen Method
logp	4.537		Crippen Method
mcvol	172.310	ml/mol	McGowan Method
pc	2424.27	kPa	Joback Method
rinpol	1459.00		NIST Webbook
tb	540.21	K	Joback Method
tc	776.57	K	Joback Method
tf	247.51	K	Joback Method
vc	0.622	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	438.45	J/mol×K	540.21	Joback Method
cpg	559.90	J/mol×K	737.18	Joback Method
cpg	538.94	J/mol×K	697.79	Joback Method
cpg	516.37	J/mol×K	658.39	Joback Method
cpg	492.12	J/mol×K	619.00	Joback Method
cpg	466.17	J/mol×K	579.60	Joback Method
cpg	579.29	J/mol×K	776.57	Joback Method
dvisc	0.0001864	Pa×s	540.21	Joback Method
dvisc	0.0002690	Pa×s	491.43	Joback Method

dvisc	0.0004210	Pa×s	442.64	Joback Method
dvisc	0.0007360	Pa×s	393.86	Joback Method
dvisc	0.0015069	Pa×s	345.08	Joback Method
dvisc	0.0039063	Pa×s	296.29	Joback Method
dvisc	0.0147410	Pa×s	247.51	Joback Method

Sources

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=R136506&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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

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