3-Cyclopentylcyclopentene

Inchi: InChI=1S/C10H16/c1-2-6-9(5-1)10-7-3-4-8-10/h1,5,9-10H,2-4,6-8H2
InchiKey: UWHATVBKIRLRTB-UHFFFAOYSA-N
Formula: C10H16
SMILES: C1=CC(C2CCCC2)CC1
Mol. weight [g/mol]: 136.23
CAS: 2690-17-7

Physical Properties

Property code	Value	Unit	Source
gf	136.38	kJ/mol	Joback Method
hf	-70.99	kJ/mol	Joback Method
hfus	10.75	kJ/mol	Joback Method
hvap	38.66	kJ/mol	Joback Method
log10ws	-3.17		Crippen Method
logp	3.143		Crippen Method
mcvol	125.740	ml/mol	McGowan Method
pc	3149.09	kPa	Joback Method
tb	459.45 ± 0.60	K	NIST Webbook
tc	682.33	K	Joback Method
tf	216.25 ± 0.60	K	NIST Webbook
vc	0.464	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	270.84	J/mol×K	457.92	Joback Method
cpg	363.68	J/mol×K	644.93	Joback Method
cpg	347.55	J/mol×K	607.53	Joback Method
cpg	330.26	J/mol×K	570.13	Joback Method
cpg	311.75	J/mol×K	532.72	Joback Method
cpg	291.97	J/mol×K	495.32	Joback Method
cpg	378.71	J/mol×K	682.33	Joback Method
dvisc	0.0003930	Pa×s	457.92	Joback Method
dvisc	0.0004790	Pa×s	419.10	Joback Method

dvisc	0.0006078	Pa×s	380.29	Joback Method
dvisc	0.0008142	Pa×s	341.47	Joback Method
dvisc	0.0011757	Pa×s	302.65	Joback Method
dvisc	0.0018914	Pa×s	263.84	Joback Method
dvisc	0.0035851	Pa×s	225.02	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2690177&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