Cyclopentane, 4-pentenylidene

Inchi: InChI=1S/C10H16/c1-2-3-4-7-10-8-5-6-9-10/h2,7H,1,3-6,8-9H2
InchiKey: UYISGPPEYKFIKW-UHFFFAOYSA-N
Formula: C10H16
SMILES: C=CCCC=C1CCCC1
Mol. weight [g/mol]: 136.23

Physical Properties

Property code	Value	Unit	Source
gf	210.88	kJ/mol	Joback Method
hf	32.55	kJ/mol	Joback Method
hfus	13.56	kJ/mol	Joback Method
hvap	38.54	kJ/mol	Joback Method
log10ws	-3.61		Crippen Method
logp	3.453		Crippen Method
mcvol	132.300	ml/mol	McGowan Method
pc	2787.66	kPa	Joback Method
rinpol	1028.00		NIST Webbook
rinpol	1028.00		NIST Webbook
tb	451.47	K	Joback Method
tc	652.43	K	Joback Method
tf	226.20	K	Joback Method
vc	0.501	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	269.80	J/mol×K	451.47	Joback Method
cpg	343.33	J/mol×K	618.93	Joback Method
cpg	330.30	J/mol×K	585.44	Joback Method
cpg	316.47	J/mol×K	551.95	Joback Method
cpg	301.81	J/mol×K	518.46	Joback Method
cpg	286.27	J/mol×K	484.96	Joback Method
cpg	355.61	J/mol×K	652.43	Joback Method
dvisc	0.0002601	Pa×s	451.47	Joback Method

dvisc	0.0003334	Pa×s	413.92	Joback Method
dvisc	0.0004489	Pa×s	376.38	Joback Method
dvisc	0.0006456	Pa×s	338.84	Joback Method
dvisc	0.0010165	Pa×s	301.29	Joback Method
dvisc	0.0018214	Pa×s	263.75	Joback Method
dvisc	0.0039610	Pa×s	226.20	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R10749&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