

4-Propylcyclopentene

Inchi:	InChI=1S/C8H14/c1-2-5-8-6-3-4-7-8/h3-4,8H,2,5-7H2,1H3
InchiKey:	CUADAVWSZMYUFJ-UHFFFAOYSA-N
Formula:	C8H14
SMILES:	CCCC1CC=CC1
Mol. weight [g/mol]:	110.20

Physical Properties

Property code	Value	Unit	Source
gf	82.99	kJ/mol	Joback Method
hf	-90.19	kJ/mol	Joback Method
hfus	11.63	kJ/mol	Joback Method
hvap	33.95	kJ/mol	Joback Method
log10ws	-2.68		Crippen Method
logp	2.753		Crippen Method
mcvol	108.420	ml/mol	McGowan Method
pc	3191.93	kPa	Joback Method
rinpol	820.00		NIST Webbook
tb	396.88	K	Joback Method
tc	591.58	K	Joback Method
tf	191.58	K	Joback Method
vc	0.410	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	201.22	J/mol×K	396.88	Joback Method
cpg	270.17	J/mol×K	559.13	Joback Method
cpg	257.80	J/mol×K	526.68	Joback Method
cpg	244.74	J/mol×K	494.23	Joback Method
cpg	230.98	J/mol×K	461.78	Joback Method
cpg	216.48	J/mol×K	429.33	Joback Method
cpg	281.88	J/mol×K	591.58	Joback Method
dvisc	0.0002884	Paxs	396.88	Joback Method
dvisc	0.0003554	Paxs	362.66	Joback Method

dvisc	0.0004574	Paxs	328.45	Joback Method
dvisc	0.0006244	Paxs	294.23	Joback Method
dvisc	0.0009251	Paxs	260.01	Joback Method
dvisc	0.0015439	Paxs	225.80	Joback Method
dvisc	0.0030941	Paxs	191.58	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=R413120&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
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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