1,3-Cyclopentadiene, 2-(2-methylpropyl)

Inchi: InChI=1S/C9H14/c1-8(2)7-9-5-3-4-6-9/h3,5-6,8H,4,7H2,1-2H3
InchiKey: NPRBXPWIWZJYDY-UHFFFAOYSA-N
Formula: C9H14
SMILES: CC(C)CC1=CCC=C1
Mol. weight [g/mol]: 122.21

Physical Properties

Property code	Value	Unit	Source
gf	117.01	kJ/mol	Joback Method
hf	-49.46	kJ/mol	Joback Method
hfus	10.46	kJ/mol	Joback Method
hvap	37.05	kJ/mol	Joback Method
log10ws	-2.95		Crippen Method
logp	2.919		Crippen Method
mcvol	118.210	ml/mol	McGowan Method
pc	3072.75	kPa	Joback Method
rinpol	864.00		NIST Webbook
rinpol	864.00		NIST Webbook
ripol	1043.60		NIST Webbook
tb	428.13	K	Joback Method
tc	629.76	K	Joback Method
tf	205.37	K	Joback Method
vc	0.448	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	229.97	J/mol×K	428.13	Joback Method
cpg	244.79	J/mol×K	461.73	Joback Method
cpg	258.79	J/mol×K	495.34	Joback Method
cpg	272.03	J/mol×K	528.94	Joback Method
cpg	284.53	J/mol×K	562.55	Joback Method
cpg	296.33	J/mol×K	596.15	Joback Method
cpg	307.45	J/mol×K	629.76	Joback Method

dvisc	0.0044006	Pa×s	205.37	Joback Method
dvisc	0.0019215	Pa×s	242.50	Joback Method
dvisc	0.0010455	Pa×s	279.62	Joback Method
dvisc	0.0006561	Pa×s	316.75	Joback Method
dvisc	0.0004541	Pa×s	353.88	Joback Method
dvisc	0.0003370	Pa×s	391.00	Joback Method
dvisc	0.0002633	Pa×s	428.13	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=R40792&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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