1,3-Cyclopentadiene, 1,2,3,4-tetramethyl-5-methylene-

Other names: 1,2,3,4-Tetramethylfulvene
Inchi: InChI=1S/C10H14/c1-6-7(2)9(4)10(5)8(6)3/h1H2,2-5H3
InchiKey: RYLMKTLFCIGRQD-UHFFFAOYSA-N
Formula: C10H14
SMILES: C=C1C(C)=C(C)C(C)=C1C
Mol. weight [g/mol]: 134.22
CAS: 76089-59-3

Physical Properties

Property code	Value	Unit	Source
gf	152.06	kJ/mol	Joback Method
hf	83.30	kJ/mol	NIST Webbook
hfus	14.25	kJ/mol	Joback Method
hvap	41.81	kJ/mol	Joback Method
log10ws	-3.46		Crippen Method
logp	3.229		Crippen Method
mcvol	128.000	ml/mol	McGowan Method
pc	2673.54	kPa	Joback Method
tb	465.55	K	Joback Method
tc	666.07	K	Joback Method
tf	282.88	K	Joback Method
vc	0.493	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	259.37	J/mol×K	465.55	Joback Method
cpg	317.31	J/mol×K	632.65	Joback Method
cpg	306.72	J/mol×K	599.23	Joback Method
cpg	295.64	J/mol×K	565.81	Joback Method
cpg	284.07	J/mol×K	532.39	Joback Method
cpg	271.98	J/mol×K	498.97	Joback Method
cpg	327.43	J/mol×K	666.07	Joback Method
dvisc	0.0002469	Pa×s	465.55	Joback Method

dvisc	0.0002810	Pa×s	435.11	Joback Method
dvisc	0.0003261	Pa×s	404.66	Joback Method
dvisc	0.0003878	Pa×s	374.22	Joback Method
dvisc	0.0004756	Pa×s	343.77	Joback Method
dvisc	0.0006067	Pa×s	313.32	Joback Method
dvisc	0.0008157	Pa×s	282.88	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C76089593&Units=SI

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