Cyclohexene, 4-ethenyl-1,4-dimethyl-

Other names:	1,4-Dimethyl-4-vinylcyclohexene
	1,4-Dimethyl-4-ethenyl-cyclohexene
Inchi:	InChI=1S/C10H16/c1-4-10(3)7-5-9(2)6-8-10/h4-5H,1,6-8H2,2-3H3
InchiKey:	CPUVYIYQJVQFRD-UHFFFAOYSA-N
Formula:	C10H16
SMILES:	C=CC1(C)CC=C(C)CC1
Mol. weight [g/mol]:	136.23
CAS:	1743-61-9

Physical Properties

Property code	Value	Unit	Source
gf	160.45	kJ/mol	Joback Method
hf	-8.43	kJ/mol	Joback Method
hfus	6.75	kJ/mol	Joback Method
hvap	37.42	kJ/mol	Joback Method
log10ws	-3.37		Crippen Method
logp	3.309		Crippen Method
mcvol	132.300	ml/mol	McGowan Method
pc	2875.03	kPa	Joback Method
rinpol	949.00		NIST Webbook
tb	448.81	K	Joback Method
tc	662.57	K	Joback Method
tf	245.26	K	Joback Method
vc	0.493	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	270.70	J/mol×K	448.81	Joback Method
cpg	288.40	J/mol×K	484.44	Joback Method
cpg	304.87	J/mol×K	520.06	Joback Method
cpg	320.25	J/mol×K	555.69	Joback Method
cpg	334.64	J/mol×K	591.32	Joback Method
cpg	348.15	J/mol×K	626.94	Joback Method

cpg	360.89	J/mol×K	662.57	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=C1743619&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
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