2H-Pyran, 2-ethenyltetrahydro-2,6,6-trimethyl-

Other names:	2H-Pyran, tetrahydro-2,2,6-trimethyl-6-vinyl-
	2,2,6-Trimethyl-6-vinyltetrahydropyran
	2,6,6-Trimethyl-2-vinyltetrahydropyran
	2,2,6-Trimethyl-6-vinyltetrahydro-2H-pyran
	2,6,6-Trimethyl-2-ethenyltetrahydro-2H-pyran
	2,6,6-Trimethyl-2-ethenyltetrahydropyran
	2,6,6-Trimethyl-2-vinyl-tetrahydropyrane
	2-Vinyltetrahydro-2,6,6-trimethyl-2H-pyran
	2,6,6-Trimethyl-2-ethenyltetrahydro-2-pyran
	2,6,6-trimethoxy-2-vinyltetrahydropyran
Inchi:	InChI=1S/C10H18O/c1-5-10(4)8-6-7-9(2,3)11-10/h5H,1,6-8H2,2-4H3
InchiKey:	NETOHYFTCONTDT-UHFFFAOYSA-N
Formula:	C10H18O
SMILES:	C=CC1(C)CCCC(C)(C)O1
Mol. weight [g/mol]:	154.25
CAS:	7392-19-0

Physical Properties

Property code	Value	Unit	Source
gf	40.80	kJ/mol	Joback Method
hf	-191.84	kJ/mol	Joback Method
hfus	8.66	kJ/mol	Joback Method
hvap	39.51	kJ/mol	Joback Method
log10ws	-3.07		Crippen Method
logp	2.910		Crippen Method
mcvol	142.470	ml/mol	McGowan Method
pc	2820.33	kPa	Joback Method
rinpol	957.00		NIST Webbook
rinpol	971.30		NIST Webbook
rinpol	972.00		NIST Webbook
rinpol	960.00		NIST Webbook
rinpol	971.00		NIST Webbook
rinpol	960.00		NIST Webbook
rinpol	960.00		NIST Webbook
rinpol	971.30		NIST Webbook
rinpol	963.00		NIST Webbook
rinpol	960.00		NIST Webbook

rinpol	961.00		NIST Webbook
rinpol	979.00		NIST Webbook
rinpol	972.00		NIST Webbook
rinpol	972.00		NIST Webbook
rinpol	969.00		NIST Webbook
ripol	1113.00		NIST Webbook
ripol	1096.00		NIST Webbook
ripol	1109.00		NIST Webbook
ripol	1091.00		NIST Webbook
ripol	1095.00		NIST Webbook
ripol	1109.00		NIST Webbook
ripol	1109.00		NIST Webbook
ripol	1112.00		NIST Webbook
tb	467.19	K	Joback Method
tc	685.50	K	Joback Method
tf	278.21	K	Joback Method
vc	0.525	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	317.94	J/mol×K	467.19	Joback Method
cpg	337.17	J/mol×K	503.58	Joback Method
cpg	354.87	J/mol×K	539.96	Joback Method
cpg	371.27	J/mol×K	576.35	Joback Method
cpg	386.55	J/mol×K	612.73	Joback Method
cpg	400.92	J/mol×K	649.12	Joback Method
cpg	414.58	J/mol×K	685.50	Joback Method

Sources

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=C7392190&Units=SI

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume