2H-Pyran, 2,5-diethenyltetrahydro-

Other names:	2,5-Divinyltetrahydropyran
	2H-Pyran, tetrahydro-2,5-divinyl-
	Tetrahydro-2,5-divinylpyran
	Pyran, 2,5-divinyl tetrahydro-
	2,5-Divinyltetrahydro-2H-pyran
Inchi:	InChI=1S/C9H14O/c1-3-8-5-6-9(4-2)10-7-8/h3-4,8-9H,1-2,5-7H2
InchiKey:	JRUPYIDCDOLUPI-UHFFFAOYSA-N
Formula:	C9H14O
SMILES:	C=CC1CCC(C=C)OC1
Mol. weight [g/mol]:	138.21
CAS:	25724-33-8

Physical Properties

Property code	Value	Unit	Source
gf	131.20	kJ/mol	Joback Method
hf	-76.25	kJ/mol	Joback Method
hfus	17.39	kJ/mol	Joback Method
hvap	38.92	kJ/mol	Joback Method
log10ws	-2.15		Crippen Method
logp	2.154		Crippen Method
mcvol	124.080	ml/mol	McGowan Method
pc	2969.80	kPa	Joback Method
tb	440.51	K	Joback Method
tc	647.83	K	Joback Method
tf	217.38	K	Joback Method
vc	0.455	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	255.15	J/mol×K	440.51	Joback Method
cpg	272.34	J/mol×K	475.06	Joback Method
cpg	288.62	J/mol×K	509.62	Joback Method
cpg	304.04	J/mol×K	544.17	Joback Method

cpg	318.61	J/mol×K	578.72	Joback Method
cpg	332.35	J/mol×K	613.27	Joback Method
cpg	345.30	J/mol×K	647.83	Joback Method
dvisc	0.0041806	Pa×s	217.38	Joback Method
dvisc	0.0019550	Pa×s	254.57	Joback Method
dvisc	0.0011097	Pa×s	291.76	Joback Method
dvisc	0.0007159	Pa×s	328.94	Joback Method
dvisc	0.0005049	Pa×s	366.13	Joback Method
dvisc	0.0003798	Pa×s	403.32	Joback Method
dvisc	0.0002997	Pa×s	440.51	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C25724338&Units=SI
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

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