2H-Pyran, 3,6-dihydro-4-methyl-2-(2-methyl-1-propenyl)-

Other names: Nerol oxide
3,6-Dihydro-4-methyl-2-(2-methyl-1-propenyl)-2H-pyran
Neryl oxide
2H-Pyran, 3,6-dihydro-4-methyl-2-(2-methyl-1-propen-1-yl)-
Isoneroloxide

Inchi: InChI=1S/C10H16O/c1-8(2)6-10-7-9(3)4-5-11-10/h4,6,10H,5,7H2,1-3H3

InchiKey: FRISMOQHTLZZRP-UHFFFAOYSA-N

Formula: C10H16O

SMILES: CC(C)=CC1CC(C)=CCO1

Mol. weight [g/mol]: 152.23

CAS: 1786-08-9

Physical Properties

Property code	Value	Unit	Source
gf	63.65	kJ/mol	Joback Method
hf	-173.67	kJ/mol	Joback Method
hfus	21.19	kJ/mol	Joback Method
hvap	43.79	kJ/mol	Joback Method
log10ws	-2.81		Crippen Method
logp	2.688		Crippen Method
mcvol	138.170	ml/mol	McGowan Method
pc	2758.46	kPa	Joback Method
rinpol	1155.20		NIST Webbook
rinpol	1164.00		NIST Webbook
rinpol	1138.00		NIST Webbook
rinpol	1138.00		NIST Webbook
rinpol	1153.00		NIST Webbook
rinpol	1138.00		NIST Webbook
rinpol	1142.00		NIST Webbook
rinpol	1137.00		NIST Webbook
rinpol	1155.00		NIST Webbook
rinpol	1140.00		NIST Webbook
rinpol	1163.00		NIST Webbook
rinpol	1144.00		NIST Webbook
rinpol	1149.00		NIST Webbook
rinpol	1151.00		NIST Webbook
rinpol	1159.00		NIST Webbook

rinpol	1148.00	NIST Webbook
rinpol	1144.00	NIST Webbook
rinpol	1127.00	NIST Webbook
rinpol	1161.00	NIST Webbook
rinpol	1141.00	NIST Webbook
rinpol	1147.00	NIST Webbook
rinpol	1127.00	NIST Webbook
rinpol	1136.00	NIST Webbook
rinpol	1143.00	NIST Webbook
rinpol	1127.00	NIST Webbook
rinpol	1140.00	NIST Webbook
rinpol	1143.00	NIST Webbook
rinpol	1146.00	NIST Webbook
rinpol	1151.00	NIST Webbook
rinpol	1172.00	NIST Webbook
rinpol	1137.00	NIST Webbook
rinpol	1137.00	NIST Webbook
rinpol	1147.00	NIST Webbook
rinpol	1140.00	NIST Webbook
ripol	1480.00	NIST Webbook
ripol	1469.00	NIST Webbook
ripol	1469.00	NIST Webbook
ripol	1469.00	NIST Webbook
ripol	1460.00	NIST Webbook
ripol	1466.00	NIST Webbook
ripol	1466.00	NIST Webbook
ripol	1500.00	NIST Webbook
ripol	1466.00	NIST Webbook
ripol	1468.50	NIST Webbook
ripol	1465.00	NIST Webbook
ripol	1471.00	NIST Webbook
ripol	1450.00	NIST Webbook
ripol	1463.00	NIST Webbook
ripol	1450.00	NIST Webbook
ripol	1468.00	NIST Webbook
ripol	1464.00	NIST Webbook
ripol	1473.00	NIST Webbook
ripol	1467.00	NIST Webbook
ripol	1458.00	NIST Webbook
ripol	1478.00	NIST Webbook
ripol	1450.00	NIST Webbook
ripol	1487.00	NIST Webbook
ripol	1487.00	NIST Webbook
ripol	1480.00	NIST Webbook

ripol	1458.00		NIST Webbook
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ripol	1480.00		NIST Webbook
ripol	1481.00		NIST Webbook
ripol	1489.00		NIST Webbook
ripol	1478.00		NIST Webbook
ripol	1458.00		NIST Webbook
tb	482.88	K	Joback Method
tc	696.26	K	Joback Method
tf	230.65	K	Joback Method
vc	0.516	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	302.69	J/mol×K	482.88	Joback Method
cpg	319.98	J/mol×K	518.44	Joback Method
cpg	336.31	J/mol×K	554.01	Joback Method
cpg	351.71	J/mol×K	589.57	Joback Method
cpg	366.23	J/mol×K	625.13	Joback Method
cpg	379.89	J/mol×K	660.70	Joback Method
cpg	392.74	J/mol×K	696.26	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=C1786089&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume