

2H-Pyran, tetrahydro-2-(1-methylethoxy)-

Other names:	2H-Pyran, tetrahydro-2-isopropoxy- Tetrahydro-2-isopropoxypyran 2-Isopropoxytetrahydropyran
Inchi:	InChI=1S/C8H16O2/c1-7(2)10-8-5-3-4-6-9-8/h7-8H,3-6H2,1-2H3
InchiKey:	ZGXPHCSAAJGIJC-UHFFFAOYSA-N
Formula:	C8H16O2
SMILES:	CC(C)OC1CCCCO1
Mol. weight [g/mol]:	144.21
CAS:	1927-70-4

Physical Properties

Property code	Value	Unit	Source
gf	-152.63	kJ/mol	Joback Method
hf	-423.63	kJ/mol	Joback Method
hfus	13.95	kJ/mol	Joback Method
hvap	40.36	kJ/mol	Joback Method
log10ws	-1.96		Crippen Method
logp	1.938		Crippen Method
mcvol	124.460	ml/mol	McGowan Method
pc	3089.85	kPa	Joback Method
rinpol	950.00		NIST Webbook
rinpol	950.00		NIST Webbook
rinpol	950.00		NIST Webbook
tb	450.92	K	Joback Method
tc	655.55	K	Joback Method
tf	221.10	K	Joback Method
vc	0.450	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	270.79	J/mol×K	450.92	Joback Method
cpg	287.78	J/mol×K	485.02	Joback Method
cpg	304.00	J/mol×K	519.13	Joback Method

cpg	319.47	J/mol×K	553.23	Joback Method
cpg	334.20	J/mol×K	587.34	Joback Method
cpg	348.18	J/mol×K	621.44	Joback Method
cpg	361.43	J/mol×K	655.55	Joback Method
dvisc	0.0096648	Pa×s	221.10	Joback Method
dvisc	0.0033763	Pa×s	259.40	Joback Method
dvisc	0.0015461	Pa×s	297.71	Joback Method
dvisc	0.0008460	Pa×s	336.01	Joback Method
dvisc	0.0005237	Pa×s	374.31	Joback Method
dvisc	0.0003544	Pa×s	412.62	Joback Method
dvisc	0.0002563	Pa×s	450.92	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1927704&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

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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