2H-Pyran, tetrahydro-2-(2-propynyloxy)-

Other names:	Propargyl alcohol tetrahydropyranyl ether
	Propargyl 2-tetrahydropyranyl ether
	1-(2'-Tetrahydropyranyloxy)-2-propyne
	2-(Propargyloxy)tetrahydropyran
	2-(2-Propynyloxy)tetrahydropyran
	2-Propargyloxane
	2-Propynyl 2-pyranyl ether
	3-(Tetrahydro-2-pyranyloxy)propyne
	3-(2'-Tetrahydropyranyloxy)propyne
	Tetrahydro-2-(2-propynyloxy)-2H-pyran
	Tetrahydro-2-(2-propynyloxy)pyran
	2H-Pyran, tetrahydro-2-(2-propyn-1-yloxy)-
	NSC 152714
Inchi:	InChI=1S/C8H12O2/c1-2-6-9-8-5-3-4-7-10-8/h1,8H,3-7H2
InchiKey:	HQAXHIGPGBPPFU-UHFFFAOYSA-N
Formula:	C8H12O2
SMILES:	C#CCOC1CCCCO1
Mol. weight [g/mol]:	140.18
CAS:	6089-04-9

Physical Properties

Property code	Value	Unit	Source
gf	72.88	kJ/mol	Joback Method
hf	-126.45	kJ/mol	Joback Method
hfus	20.45	kJ/mol	Joback Method
hvap	40.61	kJ/mol	Joback Method
log10ws	-1.64		Crippen Method
logp	1.163		Crippen Method
mcvol	115.860	ml/mol	McGowan Method
pc	3633.35	kPa	Joback Method
tb	441.48	K	Joback Method
tc	656.64	K	Joback Method
tf	283.07	K	Joback Method
vc	0.417	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	240.38	J/mol×K	441.48	Joback Method
cpg	255.53	J/mol×K	477.34	Joback Method
cpg	269.93	J/mol×K	513.20	Joback Method
cpg	283.58	J/mol×K	549.06	Joback Method
cpg	296.51	J/mol×K	584.92	Joback Method
cpg	308.72	J/mol×K	620.78	Joback Method
cpg	320.23	J/mol×K	656.64	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	337.20	K	1.00	NIST Webbook

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C6089049&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
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
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume