2H-Pyran, tetrahydro-, 2,6-dimethoxy

Other names: 2,6-Dimethoxytetrahydropyran
tetrahydro-2,6-dimethoxy-2H-pyran
Inchi: InChI=1S/C7H14O3/c1-8-6-4-3-5-7(9-2)10-6/h6-7H,3-5H2,1-2H3
InchiKey: DNLONCVMTWHJOV-UHFFFAOYSA-N
Formula: C7H14O3
SMILES: COC1CCCC(OC)O1
Mol. weight [g/mol]: 146.18
CAS: 6581-57-3

Physical Properties

Property code	Value	Unit	Source
gf	-271.32	kJ/mol	Joback Method
hf	-550.27	kJ/mol	Joback Method
hfus	17.15	kJ/mol	Joback Method
hvap	40.63	kJ/mol	Joback Method
log10ws	-1.12		Crippen Method
logp	1.132		Crippen Method
mcvol	116.240	ml/mol	McGowan Method
pc	3224.64	kPa	Joback Method
rinpol	1000.00		NIST Webbook
rinpol	1100.00		NIST Webbook
rinpol	1000.00		NIST Webbook
tb	446.23	K	Joback Method
tc	646.98	K	Joback Method
tf	242.82	K	Joback Method
vc	0.416	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	253.59	J/mol×K	446.23	Joback Method
cpg	324.61	J/mol×K	613.52	Joback Method
cpg	311.53	J/mol×K	580.06	Joback Method
cpg	297.88	J/mol×K	546.60	Joback Method

cpg	283.66	J/mol×K	513.15	Joback Method
cpg	268.89	J/mol×K	479.69	Joback Method
cpg	337.08	J/mol×K	646.98	Joback Method
dvisc	0.0002435	Pa×s	446.23	Joback Method
dvisc	0.0003104	Pa×s	412.33	Joback Method
dvisc	0.0004133	Pa×s	378.43	Joback Method
dvisc	0.0005821	Pa×s	344.52	Joback Method
dvisc	0.0008835	Pa×s	310.62	Joback Method
dvisc	0.0014853	Pa×s	276.72	Joback Method
dvisc	0.0028869	Pa×s	242.82	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=C6581573&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
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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