2H-Pyran, tetrahydro, 2,6-dipropoxy

Other names: 2,6-Dipropoxy-tetrahydropyran
Inchi: InChI=1S/C11H22O3/c1-3-8-12-10-6-5-7-11(14-10)13-9-4-2/h10-11H,3-9H2,1-2H3
InchiKey: VFFAGSFTJRWPGJ-UHFFFAOYSA-N
Formula: C11H22O3
SMILES: CCCOC1CCCC(OCCC)O1
Mol. weight [g/mol]: 202.29

Physical Properties

Property code	Value	Unit	Source
gf	-237.64	kJ/mol	Joback Method
hf	-632.83	kJ/mol	Joback Method
hfus	27.51	kJ/mol	Joback Method
hvap	49.53	kJ/mol	Joback Method
log10ws	-2.80		Crippen Method
logp	2.692		Crippen Method
mcvol	172.600	ml/mol	McGowan Method
pc	2173.43	kPa	Joback Method
rinpol	1275.00		NIST Webbook
rinpol	1275.00		NIST Webbook
rinpol	1275.00		NIST Webbook
tb	537.75	K	Joback Method
tc	728.76	K	Joback Method
tf	287.90	K	Joback Method
vc	0.640	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	439.36	J/mol×K	537.75	Joback Method
cpg	458.33	J/mol×K	569.58	Joback Method
cpg	476.50	J/mol×K	601.42	Joback Method
cpg	493.87	J/mol×K	633.25	Joback Method
cpg	510.43	J/mol×K	665.09	Joback Method
cpg	526.18	J/mol×K	696.92	Joback Method

cpg	541.13	J/mol×K	728.76	Joback Method
dvisc	0.0028516	Pa×s	287.90	Joback Method
dvisc	0.0013559	Pa×s	329.54	Joback Method
dvisc	0.0007617	Pa×s	371.18	Joback Method
dvisc	0.0004807	Pa×s	412.82	Joback Method
dvisc	0.0003301	Pa×s	454.47	Joback Method
dvisc	0.0002414	Pa×s	496.11	Joback Method
dvisc	0.0001853	Pa×s	537.75	Joback Method

Sources

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
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=R90890&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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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