Cyclopentanol,2-methoxy-,trans-

Inchi: InChI=1S/C6H12O2/c1-8-6-4-2-3-5(6)7/h5-7H,2-4H2,1H3/t5-,6-/m0/s1
InchiKey: YVXLDOASGKIXII-WDSKDSINSA-N
Formula: C6H12O2
SMILES: COC1CCCC1O
Mol. weight [g/mol]: 116.16
CAS: 7429-45-0

Physical Properties

Property code	Value	Unit	Source
gf	-213.34	kJ/mol	Joback Method
hf	-411.48	kJ/mol	Joback Method
hfus	11.58	kJ/mol	Joback Method
hvap	47.99	kJ/mol	Joback Method
ie	9.60	eV	NIST Webbook
log10ws	-0.80		Crippen Method
logp	0.546		Crippen Method
mcvol	96.280	ml/mol	McGowan Method
pc	4046.64	kPa	Joback Method
tb	461.89	K	Joback Method
tc	648.35	K	Joback Method
tf	247.09	K	Joback Method
vc	0.348	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	213.71	J/mol×K	461.89	Joback Method
cpg	225.75	J/mol×K	492.97	Joback Method
cpg	237.29	J/mol×K	524.04	Joback Method
cpg	248.34	J/mol×K	555.12	Joback Method
cpg	258.91	J/mol×K	586.19	Joback Method
cpg	269.01	J/mol×K	617.27	Joback Method
cpg	278.63	J/mol×K	648.35	Joback Method
dvisc	0.0209056	Pa×s	247.09	Joback Method

dvisc	0.0061775	Pa×s	282.89	Joback Method
dvisc	0.0024006	Pa×s	318.69	Joback Method
dvisc	0.0011291	Pa×s	354.49	Joback Method
dvisc	0.0006099	Pa×s	390.29	Joback Method
dvisc	0.0003653	Pa×s	426.09	Joback Method
dvisc	0.0002369	Pa×s	461.89	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C7429450&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
ie:	Ionization energy
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
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume