

Cyclopentene, 3,5-dimethoxy-

Inchi:	InChI=1S/C7H12O2/c1-8-6-3-4-7(5-6)9-2/h3-4,6-7H,5H2,1-2H3
InchiKey:	BAXCLVDORMRKKM-UHFFFAOYSA-N
Formula:	C7H12O2
SMILES:	COC1C=CC(OC)C1
Mol. weight [g/mol]:	128.17
CAS:	89897-05-2

Physical Properties

Property code	Value	Unit	Source
gf	-143.14	kJ/mol	Joback Method
hf	-354.33	kJ/mol	Joback Method
hfus	12.49	kJ/mol	Joback Method
hvap	36.24	kJ/mol	Joback Method
log10ws	-0.90		Crippen Method
logp	0.976		Crippen Method
mcvol	106.070	ml/mol	McGowan Method
pc	3299.15	kPa	Joback Method
tb	414.17	K	Joback Method
tc	609.09	K	Joback Method
tf	220.53	K	Joback Method
vc	0.390	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	210.91	J/molxK	414.17	Joback Method
cpg	224.30	J/molxK	446.66	Joback Method
cpg	237.22	J/molxK	479.14	Joback Method
cpg	249.66	J/molxK	511.63	Joback Method
cpg	261.62	J/molxK	544.12	Joback Method
cpg	273.09	J/molxK	576.60	Joback Method
cpg	284.08	J/molxK	609.09	Joback Method
dvisc	0.0012110	Paxs	220.53	Joback Method
dvisc	0.0007705	Paxs	252.80	Joback Method

dvisc	0.0005430	Paxs	285.08	Joback Method
dvisc	0.0004110	Paxs	317.35	Joback Method
dvisc	0.0003274	Paxs	349.62	Joback Method
dvisc	0.0002711	Paxs	381.90	Joback Method
dvisc	0.0002311	Paxs	414.17	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=C89897052&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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