6,7-dimethoxy-m-cymene

Inchi: InChI=1S/C12H18O2/c1-9(2)10-5-6-12(14-4)11(7-10)8-13-3/h5-7,9H,8H2,1-4H3
InchiKey: WMZSSQXSRIEJGC-UHFFFAOYSA-N
Formula: C12H18O2
SMILES: COCc1cc(C(C)C)ccc1OC
Mol. weight [g/mol]: 194.27

Physical Properties

Property code	Value	Unit	Source
gf	-69.13	kJ/mol	Joback Method
hf	-347.14	kJ/mol	Joback Method
hfus	18.95	kJ/mol	Joback Method
hvap	50.34	kJ/mol	Joback Method
log10ws	-3.16		Crippen Method
logp	2.965		Crippen Method
mcvol	167.920	ml/mol	McGowan Method
pc	2278.41	kPa	Joback Method
rinpol	1467.00		NIST Webbook
rinpol	1467.00		NIST Webbook
tb	555.00	K	Joback Method
tc	757.29	K	Joback Method
tf	305.92	K	Joback Method
vc	0.629	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	398.99	J/mol×K	555.00	Joback Method
cpg	414.88	J/mol×K	588.71	Joback Method
cpg	430.06	J/mol×K	622.43	Joback Method
cpg	444.52	J/mol×K	656.14	Joback Method
cpg	458.28	J/mol×K	689.86	Joback Method
cpg	471.33	J/mol×K	723.57	Joback Method
cpg	483.66	J/mol×K	757.29	Joback Method
dvisc	0.0014180	Pa×s	305.92	Joback Method

dvisc	0.0007434	Pa×s	347.43	Joback Method
dvisc	0.0004474	Pa×s	388.95	Joback Method
dvisc	0.0002969	Pa×s	430.46	Joback Method
dvisc	0.0002118	Pa×s	471.97	Joback Method
dvisc	0.0001596	Pa×s	513.49	Joback Method
dvisc	0.0001254	Pa×s	555.00	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=R340993&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