Benzene, 1,3-dimethoxy-2,4-dimethyl

Inchi: InChI=1S/C10H14O2/c1-7-5-6-9(11-3)8(2)10(7)12-4/h5-6H,1-4H3
InchiKey: LPAMMSFOMIQXDN-UHFFFAOYSA-N
Formula: C10H14O2
SMILES: COc1ccc(C)c(OC)c1C
Mol. weight [g/mol]: 166.22

Physical Properties

Property code	Value	Unit	Source
gf	-93.16	kJ/mol	Joback Method
hf	-312.05	kJ/mol	Joback Method
hfus	16.91	kJ/mol	Joback Method
hvap	46.94	kJ/mol	Joback Method
log10ws	-2.66		Crippen Method
logp	2.321		Crippen Method
mcvol	139.740	ml/mol	McGowan Method
pc	2695.80	kPa	Joback Method
rinpol	1283.00		NIST Webbook
rinpol	1283.00		NIST Webbook
tb	514.66	K	Joback Method
tc	719.69	K	Joback Method
tf	310.90	K	Joback Method
vc	0.523	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	306.26	J/mol×K	514.66	Joback Method
cpg	319.60	J/mol×K	548.83	Joback Method
cpg	332.44	J/mol×K	583.00	Joback Method
cpg	344.78	J/mol×K	617.18	Joback Method
cpg	356.59	J/mol×K	651.35	Joback Method
cpg	367.88	J/mol×K	685.52	Joback Method
cpg	378.62	J/mol×K	719.69	Joback Method
dvisc	0.0008526	Pa×s	310.90	Joback Method

dvisc	0.0005514	Pa×s	344.86	Joback Method
dvisc	0.0003856	Pa×s	378.82	Joback Method
dvisc	0.0002860	Pa×s	412.78	Joback Method
dvisc	0.0002220	Pa×s	446.74	Joback Method
dvisc	0.0001786	Pa×s	480.70	Joback Method
dvisc	0.0001478	Pa×s	514.66	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=R142759&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