Benzene, 1,3-dimethoxy-2,4,5-trimethyl

Inchi: InChI=1S/C11H16O2/c1-7-6-10(12-4)9(3)11(13-5)8(7)2/h6H,1-5H3
InchiKey: MUVGPKFVOVVZDS-UHFFFAOYSA-N
Formula: C11H16O2
SMILES: COc1cc(C)c(C)c(OC)c1C
Mol. weight [g/mol]: 180.24

Physical Properties

Property code	Value	Unit	Source
gf	-94.37	kJ/mol	Joback Method
hf	-344.16	kJ/mol	Joback Method
hfus	19.11	kJ/mol	Joback Method
hvap	49.82	kJ/mol	Joback Method
log10ws	-3.14		Crippen Method
logp	2.629		Crippen Method
mcvol	153.830	ml/mol	McGowan Method
pc	2410.00	kPa	Joback Method
rinpol	1390.00		NIST Webbook
rinpol	1390.00		NIST Webbook
tb	542.52	K	Joback Method
tc	745.65	K	Joback Method
tf	334.69	K	Joback Method
vc	0.580	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	351.47	J/mol×K	542.52	Joback Method
cpg	365.56	J/mol×K	576.37	Joback Method
cpg	379.13	J/mol×K	610.23	Joback Method
cpg	392.16	J/mol×K	644.08	Joback Method
cpg	404.65	J/mol×K	677.94	Joback Method
cpg	416.57	J/mol×K	711.79	Joback Method
cpg	427.92	J/mol×K	745.65	Joback Method
dvisc	0.0006908	Pa×s	334.69	Joback Method

dvisc	0.0004642	Pa×s	369.33	Joback Method
dvisc	0.0003339	Pa×s	403.97	Joback Method
dvisc	0.0002530	Pa×s	438.61	Joback Method
dvisc	0.0001997	Pa×s	473.24	Joback Method
dvisc	0.0001628	Pa×s	507.88	Joback Method
dvisc	0.0001362	Pa×s	542.52	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=R142744&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
McGowan Method: http://link.springer.com/article/10.1007/BF02311772

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