1,2-dimethoxy-4-(methoxymethyl)benzene

Other names: Benzene, 1,2-dimethoxy-4-(methoxymethyl)
Inchi: InChI=1S/C10H14O3/c1-11-7-8-4-5-9(12-2)10(6-8)13-3/h4-6H,7H2,1-3H3
InchiKey: YXXOJIJNHQBMMD-UHFFFAOYSA-N
Formula: C10H14O3
SMILES: COCc1ccc(OC)c(OC)c1
Mol. weight [g/mol]: 182.22

Physical Properties

Property code	Value	Unit	Source
hfus	18.48	kJ/mol	Joback Method
hvap	70.39	kJ/mol	Cheméo Relay (1.0)
ie	8.06	eV	Cheméo Relay (1.0)
log10ws	-1.54		Cheméo Relay (1.0)
logp	1.850		Crippen Method
mcvol	145.610	ml/mol	McGowan Method
tb	522.45	K	Cheméo Relay (1.0)
tf	304.26	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	330.29	J/mol×K	532.10	Joback Method
cpg	343.78	J/mol×K	565.78	Joback Method
cpg	356.77	J/mol×K	599.46	Joback Method
cpg	369.24	J/mol×K	633.14	Joback Method
cpg	381.17	J/mol×K	666.82	Joback Method
cpg	392.54	J/mol×K	700.50	Joback Method
cpg	403.34	J/mol×K	734.18	Joback Method
dvisc	0.0008685	Pa×s	320.61	Joback Method
dvisc	0.0005382	Pa×s	355.86	Joback Method
dvisc	0.0003635	Pa×s	391.11	Joback Method
dvisc	0.0002620	Pa×s	426.36	Joback Method
dvisc	0.0001985	Pa×s	461.60	Joback Method
dvisc	0.0001565	Pa×s	496.85	Joback Method

dvisc	0.0001273	Pa×s	532.10	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U333350&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point