

Benzene, 1,3-dimethoxy-4,5-dimethyl

Inchi:	InChI=1S/C10H14O2/c1-7-5-9(11-3)6-10(12-4)8(7)2/h5-6H,1-4H3
InchiKey:	GAOOOWSRSMRHPB-UHFFFAOYSA-N
Formula:	C10H14O2
SMILES:	COc1cc(C)c(C)c(OC)c1
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
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/molxK	514.66	Joback Method
cpg	367.88	J/molxK	685.52	Joback Method
cpg	356.59	J/molxK	651.35	Joback Method
cpg	344.78	J/molxK	617.18	Joback Method
cpg	332.44	J/molxK	583.00	Joback Method
cpg	319.60	J/molxK	548.83	Joback Method
cpg	378.62	J/molxK	719.69	Joback Method
dvisc	0.0001478	Paxs	514.66	Joback Method
dvisc	0.0001786	Paxs	480.70	Joback Method
dvisc	0.0002220	Paxs	446.74	Joback Method

dvisc	0.0002860	Paxs	412.78	Joback Method
dvisc	0.0003856	Paxs	378.82	Joback Method
dvisc	0.0005514	Paxs	344.86	Joback Method
dvisc	0.0008526	Paxs	310.90	Joback Method

Sources

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=R142957&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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