Dimethoxytoluene, 2,4-

Other names:	Benzene, 2,4-dimethoxy-1-methyl-
	Benzene, 1,3-dimethoxy-4-methyl
Inchi:	InChI=1S/C9H12O2/c1-7-4-5-8(10-2)6-9(7)11-3/h4-6H,1-3H3
InchiKey:	OSNMRWURXNWCGA-UHFFFAOYSA-N
Formula:	C9H12O2
SMILES:	COc1ccc(C)c(OC)c1
Mol. weight [g/mol]:	152.19

Physical Properties

Property code	Value	Unit	Source
hf	-258.18	kJ/mol	Cheméo Relay (1.0)
hfus	14.70	kJ/mol	Joback Method
hvap	63.54	kJ/mol	Cheméo Relay (1.0)
ie	7.88	eV	Cheméo Relay (1.0)
log10ws	-2.56		Cheméo Relay (1.0)
logp	2.012		Crippen Method
mcvol	125.650	ml/mol	McGowan Method
rinpol	1244.00		NIST Webbook
tb	484.20	K	NIST Webbook
tc	695.60	K	Cheméo Relay (1.0)
tf	283.53	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	262.85	J/mol×K	486.80	Joback Method
cpg	275.38	J/mol×K	521.27	Joback Method
cpg	287.43	J/mol×K	555.74	Joback Method
cpg	299.00	J/mol×K	590.21	Joback Method
cpg	310.08	J/mol×K	624.69	Joback Method
cpg	320.65	J/mol×K	659.16	Joback Method
cpg	330.70	J/mol×K	693.63	Joback Method
dvisc	0.0010774	Pa×s	287.11	Joback Method
dvisc	0.0006652	Pa×s	320.39	Joback Method

dvisc	0.0004497	Pa×s	353.67	Joback Method
dvisc	0.0003252	Pa×s	386.96	Joback Method
dvisc	0.0002475	Pa×s	420.24	Joback Method
dvisc	0.0001961	Pa×s	453.52	Joback Method
dvisc	0.0001604	Pa×s	486.80	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	388.20	K	4.00	NIST Webbook

Sources

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=C38064903&Units=SI
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
hf: Enthalpy of formation at standard conditions
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
rinpol: Non-polar retention indices
tb: Normal Boiling Point Temperature
tbrp: Boiling point at reduced pressure

tc: Critical Temperature

tf: Normal melting (fusion) point