

2,4-Dimethoxytoluene

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
CAS:	38064-90-3

Physical Properties

Property code	Value	Unit	Source
gf	-91.95	kJ/mol	Joback Method
hf	-279.94	kJ/mol	Joback Method
hfus	14.70	kJ/mol	Joback Method
hvap	44.05	kJ/mol	Joback Method
log10ws	-2.19		Crippen Method
logp	2.012		Crippen Method
mvol	125.650	ml/mol	McGowan Method
pc	3035.62	kPa	Joback Method
rinpol	1244.00		NIST Webbook
tb	484.20	K	NIST Webbook
tc	693.63	K	Joback Method
tf	287.11	K	Joback Method
vc	0.468	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	262.85	J/molxK	486.80	Joback Method
cpg	320.65	J/molxK	659.16	Joback Method
cpg	310.08	J/molxK	624.69	Joback Method
cpg	299.00	J/molxK	590.21	Joback Method
cpg	287.43	J/molxK	555.74	Joback Method
cpg	275.38	J/molxK	521.27	Joback Method

cpg	330.70	J/molxK	693.63	Joback Method
dvisc	0.0001604	Paxs	486.80	Joback Method
dvisc	0.0001961	Paxs	453.52	Joback Method
dvisc	0.0002475	Paxs	420.24	Joback Method
dvisc	0.0003252	Paxs	386.95	Joback Method
dvisc	0.0004497	Paxs	353.67	Joback Method
dvisc	0.0006652	Paxs	320.39	Joback Method
dvisc	0.0010774	Paxs	287.11	Joback Method

Pressure Dependent Properties

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

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=C38064903&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
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices

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

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