

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
gf	-188.53	kJ/mol	Joback Method
hf	-432.80	kJ/mol	Joback Method
hfus	18.48	kJ/mol	Joback Method
hvap	48.68	kJ/mol	Joback Method
log10ws	-2.10		Crippen Method
logp	1.850		Crippen Method
mcvol	145.610	ml/mol	McGowan Method
pc	2690.21	kPa	Joback Method
rinpol	1413.00		NIST Webbook
tb	532.10	K	Joback Method
tc	734.18	K	Joback Method
tf	320.61	K	Joback Method
vc	0.541	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	330.29	J/mol×K	532.10	Joback Method
cpg	392.54	J/mol×K	700.50	Joback Method
cpg	381.17	J/mol×K	666.82	Joback Method
cpg	369.24	J/mol×K	633.14	Joback Method
cpg	356.77	J/mol×K	599.46	Joback Method
cpg	343.78	J/mol×K	565.78	Joback Method
cpg	403.34	J/mol×K	734.18	Joback Method
dvisc	0.0001273	Pa×s	532.10	Joback Method

dvisc	0.0001565	Pa×s	496.85	Joback Method
dvisc	0.0001985	Pa×s	461.60	Joback Method
dvisc	0.0002620	Pa×s	426.36	Joback Method
dvisc	0.0003635	Pa×s	391.11	Joback Method
dvisc	0.0005382	Pa×s	355.86	Joback Method
dvisc	0.0008685	Pa×s	320.61	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U333350&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

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

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