

Naphthalene, 1,7-dimethoxy-

Other names:	1,7-Dimethoxynaphthalene
Inchi:	InChI=1S/C12H12O2/c1-13-10-7-6-9-4-3-5-12(14-2)11(9)8-10/h3-8H,1-2H3
InchiKey:	SNJIXGITYNNHDO-UHFFFAOYSA-N
Formula:	C12H12O2
SMILES:	COc1ccc2ccccc(OC)c2c1
Mol. weight [g/mol]:	188.22
CAS:	5309-18-2

Physical Properties

Property code	Value	Unit	Source
gf	39.96	kJ/mol	Joback Method
hf	-150.79	kJ/mol	Joback Method
hfus	19.49	kJ/mol	Joback Method
hvap	52.37	kJ/mol	Joback Method
log10ws	-3.52		Crippen Method
logp	2.857		Crippen Method
mcvol	148.460	ml/mol	McGowan Method
pc	2896.73	kPa	Joback Method
tb	574.42	K	Joback Method
tc	800.00	K	Joback Method
tf	353.62	K	Joback Method
vc	0.557	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	344.34	J/mol×K	574.42	Joback Method
cpg	358.48	J/mol×K	612.02	Joback Method
cpg	371.78	J/mol×K	649.61	Joback Method
cpg	384.27	J/mol×K	687.21	Joback Method
cpg	395.97	J/mol×K	724.81	Joback Method
cpg	406.91	J/mol×K	762.41	Joback Method
cpg	417.11	J/mol×K	800.00	Joback Method
dvisc	0.0009014	Pa×s	353.62	Joback Method

dvisc	0.0006344	Pa×s	390.42	Joback Method
dvisc	0.0004743	Pa×s	427.22	Joback Method
dvisc	0.0003714	Pa×s	464.02	Joback Method
dvisc	0.0003014	Pa×s	500.82	Joback Method
dvisc	0.0002518	Pa×s	537.62	Joback Method
dvisc	0.0002152	Pa×s	574.42	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5309182&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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

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