

Naphthalene, 1,4-dimethoxy-

Other names:	1,4-Dimethoxynaphthalene
Inchi:	InChI=1S/C12H12O2/c1-13-11-7-8-12(14-2)10-6-4-3-5-9(10)11/h3-8H,1-2H3
InchiKey:	FWWRTYBQQDXLDD-UHFFFAOYSA-N
Formula:	C12H12O2
SMILES:	COc1ccc(OC)c2ccccc12
Mol. weight [g/mol]:	188.22
CAS:	10075-62-4

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
rinpol	1731.00		NIST Webbook
rinpol	1731.00		NIST Webbook
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/molxK	574.42	Joback Method
cpg	358.48	J/molxK	612.02	Joback Method
cpg	371.78	J/molxK	649.61	Joback Method
cpg	384.27	J/molxK	687.21	Joback Method
cpg	395.97	J/molxK	724.81	Joback Method
cpg	406.91	J/molxK	762.41	Joback Method

cpg	417.11	J/mol×K	800.00	Joback Method
dvisc	0.0009014	Paxs	353.62	Joback Method
dvisc	0.0006344	Paxs	390.42	Joback Method
dvisc	0.0004743	Paxs	427.22	Joback Method
dvisc	0.0003714	Paxs	464.02	Joback Method
dvisc	0.0003014	Paxs	500.82	Joback Method
dvisc	0.0002518	Paxs	537.62	Joback Method
dvisc	0.0002152	Paxs	574.42	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C10075624&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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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