

2,6-Dimethoxy hydroquinone

Inchi:	InChI=1S/C8H10O4/c1-11-6-3-5(9)4-7(12-2)8(6)10/h3-4,9-10H,1-2H3
InchiKey:	GXAVBFNRWXCOPY-UHFFFAOYSA-N
Formula:	C8H10O4
SMILES:	COc1cc(O)cc(OC)c1O
Mol. weight [g/mol]:	170.16
CAS:	15233-65-5

Physical Properties

Property code	Value	Unit	Source
gf	-399.98	kJ/mol	Joback Method
hf	-602.45	kJ/mol	Joback Method
hfus	24.07	kJ/mol	Joback Method
hvap	67.19	kJ/mol	Joback Method
log10ws	-0.81		Crippen Method
logp	1.115		Crippen Method
mcvol	123.300	ml/mol	McGowan Method
pc	5058.59	kPa	Joback Method
tb	620.18	K	Joback Method
tc	852.66	K	Joback Method
tf	486.76	K	Joback Method
vc	0.344	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	311.69	J/molxK	620.18	Joback Method
cpg	321.46	J/molxK	658.93	Joback Method
cpg	330.66	J/molxK	697.67	Joback Method
cpg	339.37	J/molxK	736.42	Joback Method
cpg	347.68	J/molxK	775.17	Joback Method
cpg	355.68	J/molxK	813.92	Joback Method
cpg	363.44	J/molxK	852.66	Joback Method
dvisc	0.0000622	Paxs	486.76	Joback Method
dvisc	0.0000353	Paxs	509.00	Joback Method

dvisc	0.0000210	Paxs	531.23	Joback Method
dvisc	0.0000130	Paxs	553.47	Joback Method
dvisc	0.0000084	Paxs	575.71	Joback Method
dvisc	0.0000056	Paxs	597.94	Joback Method
dvisc	0.0000038	Paxs	620.18	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C15233655&Units=SI

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

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