1,4-Benzenediol, 2-methoxy-

Other names: 2-Methoxyhydroquinone
Inchi: InChI=1S/C7H8O3/c1-10-7-4-5(8)2-3-6(7)9/h2-4,8-9H,1H3
InchiKey: LAQYHRQFABOIFD-UHFFFAOYSA-N
Formula: C7H8O3
SMILES: COc1cc(O)ccc1O
Mol. weight [g/mol]: 140.14
CAS: 824-46-4

Physical Properties

Property code	Value	Unit	Source
gf	-293.77	kJ/mol	Joback Method
hf	-438.12	kJ/mol	Joback Method
hfus	20.68	kJ/mol	Joback Method
hvap	61.89	kJ/mol	Joback Method
log10ws	-0.69		Crippen Method
logp	1.106		Crippen Method
mcvol	103.340	ml/mol	McGowan Method
pc	6122.63	kPa	Joback Method
rinpol	1473.00		NIST Webbook
ripol	2918.00		NIST Webbook
tb	569.90	K	Joback Method
tc	809.70	K	Joback Method
tf	440.74	K	Joback Method
vc	0.270	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	247.31	J/mol×K	569.90	Joback Method
cpg	256.37	J/mol×K	609.87	Joback Method
cpg	264.71	J/mol×K	649.83	Joback Method
cpg	272.46	J/mol×K	689.80	Joback Method
cpg	279.72	J/mol×K	729.77	Joback Method
cpg	286.62	J/mol×K	769.73	Joback Method

cpg	293.27	J/mol×K	809.70	Joback Method
dvisc	0.0002233	Pa×s	440.74	Joback Method
dvisc	0.0001166	Pa×s	462.27	Joback Method
dvisc	0.0000645	Pa×s	483.79	Joback Method
dvisc	0.0000375	Pa×s	505.32	Joback Method
dvisc	0.0000228	Pa×s	526.85	Joback Method
dvisc	0.0000144	Pa×s	548.37	Joback Method
dvisc	0.0000094	Pa×s	569.90	Joback Method

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=C824464&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume