Flamenol

Other names:	5-Methoxyresorcinol
	3,5-Dihydroxyanisole
	1,3-Benzenediol, 5-methoxy-
Inchi:	InChI=1S/C7H8O3/c1-10-7-3-5(8)2-6(9)4-7/h2-4,8-9H,1H3
InchiKey:	HDVRLUFGYQYLFJ-UHFFFAOYSA-N
Formula:	C7H8O3
SMILES:	COc1cc(O)cc(O)c1
Mol. weight [g/mol]:	140.14
CAS:	2174-64-3

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
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

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	461.70	K	1.60	NIST Webbook
tbrp	486.20	K	2.10	NIST Webbook

Sources

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
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C2174643&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
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume