

4-Hydroxy-2-methoxybenzaldehyde

Other names:	Benzaldehyde, 4-hydroxy-2-methoxy-
Inchi:	InChI=1S/C8H8O3/c1-11-8-4-7(10)3-2-6(8)5-9/h2-5,10H,1H3
InchiKey:	WBIZZNFQJPOKDK-UHFFFAOYSA-N
Formula:	C8H8O3
SMILES:	<chem>COc1cc(O)ccc1C=O</chem>
Mol. weight [g/mol]:	152.15
CAS:	18278-34-7

Physical Properties

Property code	Value	Unit	Source
gf	-239.88	kJ/mol	Joback Method
hf	-378.50	kJ/mol	Joback Method
hfus	19.39	kJ/mol	Joback Method
hvap	58.48	kJ/mol	Joback Method
log10ws	-1.38		Crippen Method
logp	1.213		Crippen Method
mcvol	113.130	ml/mol	McGowan Method
pc	4665.71	kPa	Joback Method
tb	565.80	K	Joback Method
tc	793.56	K	Joback Method
tf	394.81	K	Joback Method
vc	0.377	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	259.74	J/mol×K	565.80	Joback Method
cpg	302.31	J/mol×K	755.60	Joback Method
cpg	294.87	J/mol×K	717.64	Joback Method
cpg	286.94	J/mol×K	679.68	Joback Method
cpg	278.48	J/mol×K	641.72	Joback Method
cpg	269.43	J/mol×K	603.76	Joback Method
cpg	309.32	J/mol×K	793.56	Joback Method
dvisc	0.0000536	Paxs	565.80	Joback Method

dvisc	0.0000771	Paxs	537.30	Joback Method
dvisc	0.0001155	Paxs	508.80	Joback Method
dvisc	0.0001814	Paxs	480.30	Joback Method
dvisc	0.0003017	Paxs	451.81	Joback Method
dvisc	0.0005373	Paxs	423.31	Joback Method
dvisc	0.0010401	Paxs	394.81	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=C18278347&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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