

Homosyringaldehyde

Other names:	2-(4-hydroxy-3,5-dimethoxyphenyl)acetaldehyde 1-(4-Hydroxy-3,5-dimethoxyphenyl)-ethanal (homosyringaldehyde)
Inchi:	InChI=1S/C10H12O4/c1-13-8-5-7(3-4-11)6-9(14-2)10(8)12/h4-6,12H,3H2,1-2H3
InchiKey:	KPSSHRNLEXOPHK-UHFFFAOYSA-N
Formula:	C10H12O4
SMILES:	<chem>COc1cc(CC=O)cc(OC)c1O</chem>
Mol. weight [g/mol]:	196.20

Physical Properties

Property code	Value	Unit	Source
gf	-337.67	kJ/mol	Joback Method
hf	-563.47	kJ/mol	Joback Method
hfus	25.37	kJ/mol	Joback Method
hvap	66.01	kJ/mol	Joback Method
log10ws	-1.34		Crippen Method
logp	1.151		Crippen Method
mcvol	147.180	ml/mol	McGowan Method
pc	3509.58	kPa	Joback Method
tb	638.96	K	Joback Method
tc	856.64	K	Joback Method
tf	452.10	K	Joback Method
vc	0.506	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	372.53	J/mol×K	638.96	Joback Method
cpg	383.78	J/mol×K	675.24	Joback Method
cpg	394.42	J/mol×K	711.52	Joback Method
cpg	404.48	J/mol×K	747.80	Joback Method
cpg	413.99	J/mol×K	784.08	Joback Method
cpg	422.98	J/mol×K	820.36	Joback Method
cpg	431.48	J/mol×K	856.64	Joback Method
dvisc	0.0003443	Paxs	452.10	Joback Method

dvisc	0.0001910	Paxs	483.24	Joback Method
dvisc	0.0001138	Paxs	514.39	Joback Method
dvisc	0.0000719	Paxs	545.53	Joback Method
dvisc	0.0000478	Paxs	576.67	Joback Method
dvisc	0.0000331	Paxs	607.82	Joback Method
dvisc	0.0000238	Paxs	638.96	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=R254169&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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