3-(3-Hydroxyphenyl)propionic acid

Other names:	«beta»-(m-Hydroxyphenyl)propionic acid
	Benzenepropanoic acid, 3-hydroxy-
	«beta»-(3-Hydroxyphenyl)propionic acid
	m-Hydroxyphenylpropionic acid
	Hydrocinnamic acid, m-hydroxy-
	3-(m-Hydroxyphenyl)propionic acid
	3-Hydroxyphenylpropionic acid
	3-Hydroxybenzenepropanoic acid
	Dihydro-m-coumaric acid
	NSC 33135
	NSC 39468
Inchi:	InChI=1S/C9H10O3/c10-8-3-1-2-7(6-8)4-5-9(11)12/h1-3,6,10H,4-5H2,(H,11,12)
InchiKey:	QVWAEZJXDYOKEH-UHFFFAOYSA-N
Formula:	C9H10O3
SMILES:	O=C(O)CCc1cccc(O)c1
Mol. weight [g/mol]:	166.17
CAS:	621-54-5

Physical Properties

Property code	Value	Unit	Source
gf	-283.05	kJ/mol	Joback Method
hf	-434.68	kJ/mol	Joback Method
hfus	24.58	kJ/mol	Joback Method
hvap	74.34	kJ/mol	Joback Method
log10ws	-1.34		Crippen Method
logp	1.409		Crippen Method
mcvol	127.220	ml/mol	McGowan Method
pc	4775.98	kPa	Joback Method
tb	658.67	K	Joback Method
tc	871.60	K	Joback Method
tf	440.08	K	Joback Method
vc	0.422	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	325.04	J/mol×K	658.67	Joback Method
cpg	334.12	J/mol×K	694.16	Joback Method
cpg	342.62	J/mol×K	729.65	Joback Method
cpg	350.59	J/mol×K	765.14	Joback Method
cpg	358.12	J/mol×K	800.63	Joback Method
cpg	365.26	J/mol×K	836.12	Joback Method
cpg	372.09	J/mol×K	871.60	Joback Method
dvisc	0.0006700	Pa×s	440.08	Joback Method
dvisc	0.0002502	Pa×s	476.51	Joback Method
dvisc	0.0001075	Pa×s	512.94	Joback Method
dvisc	0.0000516	Pa×s	549.38	Joback Method
dvisc	0.0000272	Pa×s	585.81	Joback Method
dvisc	0.0000154	Pa×s	622.24	Joback Method
dvisc	0.0000093	Pa×s	658.67	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=C621545&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