M-xylene, a,a'-diol 5-chloro-2-hydroxy-

Other names: 5-chloro-m-xylene-2,«alpha»,«alpha»'-triol
Inchi: InChI=1S/C8H9ClO3/c9-7-1-5(3-10)8(12)6(2-7)4-11/h1-2,10-12H,3-4H2
InchiKey: OGMITUYZIACKHB-UHFFFAOYSA-N
Formula: C8H9ClO3
SMILES: OCc1cc(Cl)cc(CO)c1O
Mol. weight [g/mol]: 188.61
CAS: 17026-49-2

Physical Properties

Property code	Value	Unit	Source
gf	-330.56	kJ/mol	Joback Method
hf	-492.37	kJ/mol	Joback Method
hfus	27.89	kJ/mol	Joback Method
hvap	87.76	kJ/mol	Joback Method
log10ws	-1.99		Crippen Method
logp	1.030		Crippen Method
mcvol	129.670	ml/mol	McGowan Method
pc	5183.17	kPa	Joback Method
tb	721.49	K	Joback Method
tc	923.43	K	Joback Method
tf	494.66	K	Joback Method
vc	0.428	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	325.50	J/mol×K	721.49	Joback Method
cpg	332.34	J/mol×K	755.15	Joback Method
cpg	338.86	J/mol×K	788.80	Joback Method
cpg	345.11	J/mol×K	822.46	Joback Method
cpg	351.12	J/mol×K	856.12	Joback Method
cpg	356.96	J/mol×K	889.78	Joback Method
cpg	362.68	J/mol×K	923.43	Joback Method
dvisc	0.0001273	Pa×s	494.66	Joback Method

dvisc	0.0000458	Pa×s	532.46	Joback Method
dvisc	0.0000189	Pa×s	570.27	Joback Method
dvisc	0.0000087	Pa×s	608.08	Joback Method
dvisc	0.0000044	Pa×s	645.88	Joback Method
dvisc	0.0000024	Pa×s	683.68	Joback Method
dvisc	0.0000014	Pa×s	721.49	Joback Method

Sources

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=C17026492&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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