cis-1,2-Dihydrocatechol

Inchi: InChI=1S/C6H8O2/c7-5-3-1-2-4-6(5)8/h1-8H/t5-,6+
InchiKey: YDRSQRPHLBEPTP-OLQVQODUSA-N
Formula: C6H8O2
SMILES: OC1C=CC=CC1O
Mol. weight [g/mol]: 112.13
CAS: 17793-95-2

Physical Properties

Property code	Value	Unit	Source
gf	-197.34	kJ/mol	Joback Method
hf	-322.09	kJ/mol	Joback Method
hfus	14.82	kJ/mol	Joback Method
hvap	63.01	kJ/mol	Joback Method
log10ws	-0.69		Crippen Method
logp	-0.166		Crippen Method
mcvol	87.680	ml/mol	McGowan Method
pc	5359.18	kPa	Joback Method
tb	534.24	K	Joback Method
tc	721.92	K	Joback Method
tf	283.68	K	Joback Method
vc	0.314	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	204.87	J/mol×K	534.24	Joback Method
cpg	213.90	J/mol×K	565.52	Joback Method
cpg	222.45	J/mol×K	596.80	Joback Method
cpg	230.54	J/mol×K	628.08	Joback Method
cpg	238.17	J/mol×K	659.36	Joback Method
cpg	245.35	J/mol×K	690.64	Joback Method
cpg	252.11	J/mol×K	721.92	Joback Method
dvisc	0.0606138	Pa×s	283.68	Joback Method
dvisc	0.0099278	Pa×s	325.44	Joback Method

dvisc	0.0024539	Pa×s	367.20	Joback Method
dvisc	0.0008069	Pa×s	408.96	Joback Method
dvisc	0.0003260	Pa×s	450.72	Joback Method
dvisc	0.0001536	Pa×s	492.48	Joback Method
dvisc	0.0000814	Pa×s	534.24	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C17793952&Units=SI
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

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