

1-(4-Methoxyphenyl)propane-1,2-diol

Inchi:	InChI=1S/C10H14O3/c1-7(11)10(12)8-3-5-9(13-2)6-4-8/h3-7,10-12H,1-2H3
InchiKey:	MRDZSBVJWOXBRW-UHFFFAOYSA-N
Formula:	C10H14O3
SMILES:	COc1ccc(C(O)C(C)O)cc1
Mol. weight [g/mol]:	182.22
CAS:	51410-48-1

Physical Properties

Property code	Value	Unit	Source
gf	-247.42	kJ/mol	Joback Method
hf	-471.91	kJ/mol	Joback Method
hfus	17.63	kJ/mol	Joback Method
hvap	75.78	kJ/mol	Joback Method
log10ws	-1.91		Crippen Method
logp	1.109		Crippen Method
mvol	145.610	ml/mol	McGowan Method
pc	3547.31	kPa	Joback Method
rinpol	1582.30		NIST Webbook
rinpol	1582.30		NIST Webbook
tb	665.76	K	Joback Method
tc	854.92	K	Joback Method
tf	355.27	K	Joback Method
vc	0.531	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	386.88	J/molxK	665.76	Joback Method
cpg	397.35	J/molxK	697.29	Joback Method
cpg	407.25	J/molxK	728.81	Joback Method
cpg	416.58	J/molxK	760.34	Joback Method
cpg	425.37	J/molxK	791.86	Joback Method
cpg	433.62	J/molxK	823.39	Joback Method
cpg	441.35	J/molxK	854.92	Joback Method

dvisc	0.0079564	Paxs	355.27	Joback Method
dvisc	0.0013920	Paxs	407.02	Joback Method
dvisc	0.0003609	Paxs	458.77	Joback Method
dvisc	0.0001230	Paxs	510.51	Joback Method
dvisc	0.0000511	Paxs	562.26	Joback Method
dvisc	0.0000246	Paxs	614.01	Joback Method
dvisc	0.0000133	Paxs	665.76	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=C51410481&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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