D-GLUCONIC ACID, 2,3,4,6-TETRA-O-METHYL-, .DELTA.-LACTONE

Other names: D-(+)-Gluconic acid «delta»-lactone, tetramethyl ether
Inchi: InChI=1S/C10H18O6/c1-12-5-6-7(13-2)8(14-3)9(15-4)10(11)16-6/h6-9H,5H2,1-4H3
InchiKey: VKQXSSPDIRLBRM-UHFFFAOYSA-N
Formula: C10H18O6
SMILES: COCC1OC(=O)C(OC)C(OC)C1OC
Mol. weight [g/mol]: 234.25

Physical Properties

Property code	Value	Unit	Source
hfus	28.95	kJ/mol	Joback Method
logp	-0.397		Crippen Method
mcvol	171.820	ml/mol	McGowan Method
rinpol	1559.20		NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	484.81	J/mol×K	618.19	Joback Method
cpg	503.03	J/mol×K	652.02	Joback Method
cpg	520.48	J/mol×K	685.86	Joback Method
cpg	537.09	J/mol×K	719.69	Joback Method
cpg	552.79	J/mol×K	753.52	Joback Method
cpg	567.50	J/mol×K	787.36	Joback Method
cpg	581.16	J/mol×K	821.19	Joback Method

Sources

Joback Method: https://en.wikipedia.org/wiki/Joback_method
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C35510384&Units=SI

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
rinpol:	Non-polar retention indices