ALPHA,BETA-METHYL-2-DEOXY-D-RIBOFURANO

Inchi: InChI=1S/C6H12O4/c1-9-6-2-4(8)5(3-7)10-6/h4-8H,2-3H2,1H3
InchiKey: NVGJZDFWPSOTHM-UHFFFAOYSA-N
Formula: C6H12O4
SMILES: COC1CC(O)C(CO)O1
Mol. weight [g/mol]: 148.16

Physical Properties

Property code	Value	Unit	Source
hfus	24.72	kJ/mol	Joback Method
logp	-0.899		Crippen Method
mcvol	108.020	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	294.49	J/mol×K	576.35	Joback Method
cpg	304.90	J/mol×K	605.89	Joback Method
cpg	314.85	J/mol×K	635.44	Joback Method
cpg	324.36	J/mol×K	664.98	Joback Method
cpg	333.42	J/mol×K	694.53	Joback Method
cpg	342.03	J/mol×K	724.07	Joback Method
cpg	350.20	J/mol×K	753.62	Joback Method
dvisc	0.0140110	Pa×s	330.24	Joback Method
dvisc	0.0035793	Pa×s	371.26	Joback Method
dvisc	0.0011996	Pa×s	412.28	Joback Method
dvisc	0.0004900	Pa×s	453.29	Joback Method
dvisc	0.0002322	Pa×s	494.31	Joback Method
dvisc	0.0001234	Pa×s	535.33	Joback Method
dvisc	0.0000718	Pa×s	576.35	Joback Method

Sources

Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C60134261&Units=SI
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):	

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hfus:	Enthalpy of fusion at standard conditions
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume