

3,5-di-O-acetyl-1,4-Anhydro-2-O-methyl-D-ribitol

Other names:	3,5-O-Acetyl-1,4-Anhydro-2-O-methyl-D-xylitol
Inchi:	InChI=1S/C10H16O6/c1-6(11)14-5-9-10(16-7(2)12)8(13-3)4-15-9/h8-10H,4-5H2,1-3H3/t8
InchiKey:	OYQRUEYSACUGFJ-UHFFFAOYSA-N
Formula:	C10H16O6
SMILES:	CO[C@H]1CO[C@H](COC(C)=O)[C@H]1OC(C)=O
Mol. weight [g/mol]:	232.23

Physical Properties

Property code	Value	Unit	Source
hfus	32.47	kJ/mol	Joback Method
logp	-0.105		Crippen Method
mcpvol	167.520	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	464.89	J/mol×K	636.09	Joback Method
cpg	544.28	J/mol×K	837.04	Joback Method
cpg	533.18	J/mol×K	803.55	Joback Method
cpg	521.20	J/mol×K	770.06	Joback Method
cpg	508.36	J/mol×K	736.57	Joback Method
cpg	494.68	J/mol×K	703.07	Joback Method
cpg	480.18	J/mol×K	669.58	Joback Method
dvisc	0.0005128	Pa×s	517.05	Joback Method
dvisc	0.0002719	Pa×s	636.09	Joback Method
dvisc	0.0003266	Pa×s	596.41	Joback Method
dvisc	0.0004027	Pa×s	556.73	Joback Method
dvisc	0.0014137	Pa×s	398.00	Joback Method
dvisc	0.0006797	Pa×s	477.36	Joback Method
dvisc	0.0009483	Pa×s	437.68	Joback Method

Sources

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=R180657&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/ci990307I

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

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