

# D-(+)-Ribono-1,4-lactone, triacetate

<b>Inchi:</b>	InChI=1S/C11H14O8/c1-5(12)16-4-8-9(17-6(2)13)10(11(15)19-8)18-7(3)14/h8-10H,4H2,
<b>InchiKey:</b>	JIILXWRHIYAEQM-UHFFFAOYSA-N
<b>Formula:</b>	C11H14O8
<b>SMILES:</b>	CC(=O)OCC1OC(=O)C(OC(C)=O)C1OC(C)=O
<b>Mol. weight [g/mol]:</b>	274.22

## Physical Properties

Property code	Value	Unit	Source
gf	-847.60	kJ/mol	Joback Method
hf	-1254.67	kJ/mol	Joback Method
hfus	36.17	kJ/mol	Joback Method
hvap	75.94	kJ/mol	Joback Method
log10ws	-0.11		Crippen Method
logp	-0.662		Crippen Method
mcvol	184.750	ml/mol	McGowan Method
pc	2510.03	kPa	Joback Method
rinpol	1731.50		NIST Webbook
tb	780.66	K	Joback Method
tc	996.19	K	Joback Method
tf	527.42	K	Joback Method
vc	0.691	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	563.43	J/mol×K	780.66	Joback Method
cpg	576.69	J/mol×K	816.58	Joback Method
cpg	588.76	J/mol×K	852.50	Joback Method
cpg	599.59	J/mol×K	888.42	Joback Method
cpg	609.12	J/mol×K	924.35	Joback Method
cpg	617.28	J/mol×K	960.27	Joback Method
cpg	624.02	J/mol×K	996.19	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U380072&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U380072&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>h vap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m cvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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