

# 1,4-Dioxane-2,3-diyl diethyl dicarbonate

<b>Inchi:</b>	InChI=1S/C10H16O8/c1-3-13-9(11)17-7-8(16-6-5-15-7)18-10(12)14-4-2/h7-8H,3-6H2,1-2
<b>InchiKey:</b>	AJIDUSGIWLUMQS-UHFFFAOYSA-N
<b>Formula:</b>	C10H16O8
<b>SMILES:</b>	CCOC(=O)OC1OCCOC1OC(=O)OCC
<b>Mol. weight [g/mol]:</b>	264.23

## Physical Properties

Property code	Value	Unit	Source
gf	-800.02	kJ/mol	Joback Method
hf	-1233.79	kJ/mol	Joback Method
hfus	38.47	kJ/mol	Joback Method
hvap	70.13	kJ/mol	Joback Method
log10ws	-1.15		Crippen Method
logp	1.032		Crippen Method
mcvol	179.260	ml/mol	McGowan Method
pc	2587.22	kPa	Joback Method
rinpol	1704.00		NIST Webbook
tb	694.40	K	Joback Method
tc	898.32	K	Joback Method
tf	447.52	K	Joback Method
vc	0.653	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	522.57	J/molxK	694.40	Joback Method
cpg	537.23	J/molxK	728.39	Joback Method
cpg	550.96	J/molxK	762.37	Joback Method
cpg	563.74	J/molxK	796.36	Joback Method
cpg	575.52	J/molxK	830.35	Joback Method
cpg	586.27	J/molxK	864.33	Joback Method
cpg	595.94	J/molxK	898.32	Joback Method
dvisc	0.0009323	Paxs	447.52	Joback Method
dvisc	0.0005756	Paxs	488.67	Joback Method

dvisc	0.0003830	Paxs	529.81	Joback Method
dvisc	0.0002703	Paxs	570.96	Joback Method
dvisc	0.0001999	Paxs	612.11	Joback Method
dvisc	0.0001535	Paxs	653.25	Joback Method
dvisc	0.0001217	Paxs	694.40	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U373806&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373806&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>dvisc:</b>	Dynamic viscosity
<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>hvap:</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>mcvol:</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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