

# diethyl 2-hydroxypentanedioate

<b>Inchi:</b>	InChI=1S/C8H14O6/c1-3-13-8(11)6(9)4-5-7(10)14-12-2/h6,9H,3-5H2,1-2H3
<b>InchiKey:</b>	WTSHYIUOXHQWGT-UHFFFAOYSA-N
<b>Formula:</b>	C8H14O6
<b>SMILES:</b>	CCOC(=O)C(O)CCC(=O)OOC
<b>Mol. weight [g/mol]:</b>	206.19

## Physical Properties

Property code	Value	Unit	Source
gf	-695.62	kJ/mol	Joback Method
hf	-987.78	kJ/mol	Joback Method
hfus	23.80	kJ/mol	Joback Method
hvap	70.41	kJ/mol	Joback Method
log10ws	-0.35		Crippen Method
logp	-0.205		Crippen Method
mcvol	150.200	ml/mol	McGowan Method
pc	3049.04	kPa	Joback Method
ripol	2115.00		NIST Webbook
ripol	2171.00		NIST Webbook
ripol	2171.00		NIST Webbook
tb	649.18	K	Joback Method
tc	827.87	K	Joback Method
tf	392.29	K	Joback Method
vc	0.562	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	396.94	J/molxK	649.18	Joback Method
cpg	407.10	J/molxK	678.96	Joback Method
cpg	416.80	J/molxK	708.74	Joback Method
cpg	426.03	J/molxK	738.53	Joback Method
cpg	434.78	J/molxK	768.31	Joback Method
cpg	443.04	J/molxK	798.09	Joback Method
cpg	450.78	J/molxK	827.87	Joback Method

dvisc	0.0019190	Paxs	392.29	Joback Method
dvisc	0.0007625	Paxs	435.11	Joback Method
dvisc	0.0003574	Paxs	477.92	Joback Method
dvisc	0.0001898	Paxs	520.74	Joback Method
dvisc	0.0001109	Paxs	563.55	Joback Method
dvisc	0.0000700	Paxs	606.37	Joback Method
dvisc	0.0000469	Paxs	649.18	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R325721&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R325721&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>

## 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>ripol:</b>	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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