

# DL-2,3-Diethylsuccinic anhydride

<b>Inchi:</b>	InChI=1S/C8H12O3/c1-3-5-6(4-2)8(10)11-7(5)9/h5-6H,3-4H2,1-2H3
<b>InchiKey:</b>	WRAJQNMZXMFXND-UHFFFAOYSA-N
<b>Formula:</b>	C8H12O3
<b>SMILES:</b>	CCC1C(=O)OC(=O)C1CC
<b>Mol. weight [g/mol]:</b>	156.18
<b>CAS:</b>	875-29-6

## Physical Properties

Property code	Value	Unit	Source
chs	-4107.88	kJ/mol	NIST Webbook
gf	-285.98	kJ/mol	Joback Method
hf	-575.71	kJ/mol	Joback Method
hfus	18.48	kJ/mol	Joback Method
hvap	46.35	kJ/mol	Joback Method
log10ws	-1.22		Crippen Method
logp	1.122		Crippen Method
mcvol	121.730	ml/mol	McGowan Method
pc	3163.27	kPa	Joback Method
tb	555.64	K	Joback Method
tc	781.65	K	Joback Method
tf	349.59	K	Joback Method
vc	0.459	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	307.23	J/molxK	555.64	Joback Method
cpg	322.77	J/molxK	593.31	Joback Method
cpg	337.66	J/molxK	630.98	Joback Method
cpg	351.86	J/molxK	668.64	Joback Method
cpg	365.31	J/molxK	706.31	Joback Method
cpg	377.98	J/molxK	743.98	Joback Method
cpg	389.82	J/molxK	781.65	Joback Method

# Sources

<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=C875296&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C875296&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>

# Legend

<b>chs:</b>	Standard solid enthalpy of combustion
<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>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>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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