

# Succinic acid, 3,5-dinitrobenzyl ethyl ester

<b>Inchi:</b>	InChI=1S/C13H14N2O8/c1-2-22-12(16)3-4-13(17)23-8-9-5-10(14(18)19)7-11(6-9)15(20)
<b>InchiKey:</b>	ARJZQKPMNDTOX-UHFFFAOYSA-N
<b>Formula:</b>	C13H14N2O8
<b>SMILES:</b>	CCOC(=O)CCC(=O)OCc1cc([N+](=O)[O-])cc([N+](=O)[O-])c1
<b>Mol. weight [g/mol]:</b>	326.26

## Physical Properties

Property code	Value	Unit	Source
gf	-245.01	kJ/mol	Joback Method
hf	-609.18	kJ/mol	Joback Method
hfus	50.98	kJ/mol	Joback Method
hvap	99.63	kJ/mol	Joback Method
log10ws	-3.89		Crippen Method
logp	1.889		Crippen Method
mvol	219.990	ml/mol	McGowan Method
pc	2381.86	kPa	Joback Method
rinpol	2475.00		NIST Webbook
rinpol	2475.00		NIST Webbook
tb	989.74	K	Joback Method
tc	1236.64	K	Joback Method
tf	719.27	K	Joback Method
vc	0.868	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	670.87	J/mol×K	989.74	Joback Method
cpg	678.55	J/mol×K	1030.89	Joback Method
cpg	684.95	J/mol×K	1072.04	Joback Method
cpg	690.07	J/mol×K	1113.19	Joback Method
cpg	693.92	J/mol×K	1154.34	Joback Method
cpg	696.51	J/mol×K	1195.49	Joback Method
cpg	697.87	J/mol×K	1236.64	Joback Method

# Sources

<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=U381091&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U381091&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>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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>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>rinpola:</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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