

# Succinic acid, butyl 3,5-dinitrobenzyl ester

<b>Inchi:</b>	InChI=1S/C15H18N2O8/c1-2-3-6-24-14(18)4-5-15(19)25-10-11-7-12(16(20)21)9-13(8-11
<b>InchiKey:</b>	HBMUKYXEIGYSML-UHFFFAOYSA-N
<b>Formula:</b>	C15H18N2O8
<b>SMILES:</b>	CCCCOC(=O)CCC(=O)OCc1cc([N+](=O)[O-])cc([N+](=O)[O-])c1
<b>Mol. weight [g/mol]:</b>	354.31

## Physical Properties

Property code	Value	Unit	Source
gf	-228.17	kJ/mol	Joback Method
hf	-650.46	kJ/mol	Joback Method
hfus	56.16	kJ/mol	Joback Method
hvap	104.08	kJ/mol	Joback Method
log10ws	-4.73		Crippen Method
logp	2.670		Crippen Method
mcvol	248.170	ml/mol	McGowan Method
pc	1991.21	kPa	Joback Method
rinpol	2665.00		NIST Webbook
rinpol	2665.00		NIST Webbook
tb	1035.50	K	Joback Method
tc	1280.58	K	Joback Method
tf	741.81	K	Joback Method
vc	0.980	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	784.03	J/mol×K	1035.50	Joback Method
cpg	791.86	J/mol×K	1076.35	Joback Method
cpg	798.34	J/mol×K	1117.19	Joback Method
cpg	803.47	J/mol×K	1158.04	Joback Method
cpg	807.27	J/mol×K	1198.89	Joback Method
cpg	809.78	J/mol×K	1239.74	Joback Method
cpg	811.02	J/mol×K	1280.58	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=U381093&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U381093&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>hvp:</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>rinp:</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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