

# Succinic acid, 3,5-dinitro-2-methylbenzyl propyl ester

<b>Inchi:</b>	InChI=1S/C15H18N2O8/c1-3-6-24-14(18)4-5-15(19)25-9-11-7-12(16(20)21)8-13(10(11)2
<b>InchiKey:</b>	RYBIKFNJUANPDA-UHFFFAOYSA-N
<b>Formula:</b>	C15H18N2O8
<b>SMILES:</b>	CCCOC(=O)CCC(=O)OCc1cc([N+](=O)[O-])cc([N+](=O)[O-])c1C
<b>Mol. weight [g/mol]:</b>	354.31

## Physical Properties

Property code	Value	Unit	Source
gf	-237.80	kJ/mol	Joback Method
hf	-661.93	kJ/mol	Joback Method
hfus	55.78	kJ/mol	Joback Method
hvap	104.74	kJ/mol	Joback Method
log10ws	-4.78		Crippen Method
logp	2.588		Crippen Method
mcvol	248.170	ml/mol	McGowan Method
pc	1964.82	kPa	Joback Method
rinpola	2645.00		NIST Webbook
rinpola	2645.00		NIST Webbook
tb	1040.48	K	Joback Method
tc	1286.37	K	Joback Method
tf	754.33	K	Joback Method
vc	0.980	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	782.00	J/mol×K	1040.48	Joback Method
cpg	789.64	J/mol×K	1081.46	Joback Method
cpg	795.86	J/mol×K	1122.44	Joback Method
cpg	800.67	J/mol×K	1163.43	Joback Method
cpg	804.09	J/mol×K	1204.41	Joback Method
cpg	806.13	J/mol×K	1245.39	Joback Method
cpg	806.81	J/mol×K	1286.37	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U381005&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U381005&amp;Units=SI</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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