

# Succinic acid, di(2-nitrophenethyl) ester

<b>Inchi:</b>	InChI=1S/C20H20N2O8/c23-19(29-13-11-15-5-1-3-7-17(15)21(25)26)9-10-20(24)30-14-
<b>InchiKey:</b>	UEIXLFSAXGBMQM-UHFFFAOYSA-N
<b>Formula:</b>	C20H20N2O8
<b>SMILES:</b>	O=C(CCC(=O)OCCc1ccccc1[N+](=O)[O-])OCCc1ccccc1[N+](=O)[O-]
<b>Mol. weight [g/mol]:</b>	416.38

## Physical Properties

Property code	Value	Unit	Source
gf	-73.66	kJ/mol	Joback Method
hf	-517.13	kJ/mol	Joback Method
hfus	63.16	kJ/mol	Joback Method
hvap	117.48	kJ/mol	Joback Method
log10ws	-5.43		Crippen Method
logp	3.155		Crippen Method
mvol	294.860	ml/mol	McGowan Method
pc	1750.67	kPa	Joback Method
rinpol	3340.00		NIST Webbook
rinpol	3340.00		NIST Webbook
tb	1176.58	K	Joback Method
tc	1444.76	K	Joback Method
tf	824.58	K	Joback Method
vc	1.151	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	951.64	J/mol×K	1176.58	Joback Method
cpg	956.69	J/mol×K	1221.28	Joback Method
cpg	960.22	J/mol×K	1265.97	Joback Method
cpg	962.33	J/mol×K	1310.67	Joback Method
cpg	963.07	J/mol×K	1355.37	Joback Method
cpg	962.54	J/mol×K	1400.07	Joback Method
cpg	960.80	J/mol×K	1444.76	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=U381277&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U381277&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>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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