

# Succinic acid, 2-(dimethylamino)ethyl 3,5-dimethylphenyl ester

<b>Inchi:</b>	InChI=1S/C16H23NO4/c1-12-9-13(2)11-14(10-12)21-16(19)6-5-15(18)20-8-7-17(3)4/h9-
<b>InchiKey:</b>	LTKZDRFEXRDINB-UHFFFAOYSA-N
<b>Formula:</b>	C16H23NO4
<b>SMILES:</b>	<chem>Cc1cc(C)cc(OC(=O)CCC(=O)OCCN(C)C)c1</chem>
<b>Mol. weight [g/mol]:</b>	293.36

## Physical Properties

Property code	Value	Unit	Source
gf	-180.07	kJ/mol	Joback Method
hf	-582.05	kJ/mol	Joback Method
hfus	39.05	kJ/mol	Joback Method
hvap	75.16	kJ/mol	Joback Method
log10ws	-2.68		Crippen Method
logp	2.094		Crippen Method
mcvol	237.400	ml/mol	McGowan Method
pc	1790.91	kPa	Joback Method
rinsol	2182.00		NIST Webbook
tb	767.14	K	Joback Method
tc	968.23	K	Joback Method
tf	498.33	K	Joback Method
vc	0.889	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	688.28	J/mol×K	767.14	Joback Method
cpg	703.39	J/mol×K	800.65	Joback Method
cpg	717.51	J/mol×K	834.17	Joback Method
cpg	730.64	J/mol×K	867.68	Joback Method
cpg	742.82	J/mol×K	901.20	Joback Method
cpg	754.04	J/mol×K	934.71	Joback Method
cpg	764.34	J/mol×K	968.23	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=U360729&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360729&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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>hvac:</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>mccol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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

Latest version available from:

<https://www.chemeo.com/cid/46-623-9/Succinic-acid-2-dimethylamino-ethyl-3-5-dimethylphenyl-ester.pdf>

Generated by Cheméo on 2024-04-26 21:20:08.335465445 +0000 UTC m=+16455657.256042761.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.