

# Succinic acid, decyl 2-naphthylmethyl ester

<b>Inchi:</b>	InChI=1S/C25H34O4/c1-2-3-4-5-6-7-8-11-18-28-24(26)16-17-25(27)29-20-21-14-15-22-
<b>InchiKey:</b>	MVAHFMBBYXOTDP-UHFFFAOYSA-N
<b>Formula:</b>	C25H34O4
<b>SMILES:</b>	CCCCCCCCCOC(=O)CCC(=O)OCc1ccc2ccccc2c1
<b>Mol. weight [g/mol]:</b>	398.54

## Physical Properties

Property code	Value	Unit	Source
gf	-98.79	kJ/mol	Joback Method
hf	-632.80	kJ/mol	Joback Method
hfus	56.75	kJ/mol	Joback Method
hvap	94.13	kJ/mol	Joback Method
log10ws	-7.74		Crippen Method
logp	6.347		Crippen Method
mvol	334.770	ml/mol	McGowan Method
pc	1137.50	kPa	Joback Method
rinpol	3118.00		NIST Webbook
rinpol	3118.00		NIST Webbook
tb	974.62	K	Joback Method
tc	1194.68	K	Joback Method
tf	587.47	K	Joback Method
vc	1.298	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1100.84	J/molxK	974.62	Joback Method
cpg	1116.48	J/molxK	1011.30	Joback Method
cpg	1130.91	J/molxK	1047.97	Joback Method
cpg	1144.21	J/molxK	1084.65	Joback Method
cpg	1156.45	J/molxK	1121.33	Joback Method
cpg	1167.69	J/molxK	1158.00	Joback Method
cpg	1178.00	J/molxK	1194.68	Joback Method
dvisc	0.0004444	Paxs	587.47	Joback Method

dvisc	0.0002642	Paxs	652.00	Joback Method
dvisc	0.0001726	Paxs	716.52	Joback Method
dvisc	0.0001209	Paxs	781.05	Joback Method
dvisc	0.0000894	Paxs	845.57	Joback Method
dvisc	0.0000690	Paxs	910.10	Joback Method
dvisc	0.0000552	Paxs	974.62	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=U389989&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U389989&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>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

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