

# Succinic acid, dec-2-yl 2-naphthylmethyl ester

<b>Inchi:</b>	InChI=1S/C25H34O4/c1-3-4-5-6-7-8-11-20(2)29-25(27)17-16-24(26)28-19-21-14-15-22-
<b>InchiKey:</b>	CENDTVJIZQUVIK-UHFFFAOYSA-N
<b>Formula:</b>	C25H34O4
<b>SMILES:</b>	CCCCCCCCC(C)OC(=O)CCC(=O)OCc1ccc2ccccc2c1
<b>Mol. weight [g/mol]:</b>	398.54

## Physical Properties

Property code	Value	Unit	Source
gf	-101.23	kJ/mol	Joback Method
hf	-638.08	kJ/mol	Joback Method
hfus	53.23	kJ/mol	Joback Method
hvap	93.75	kJ/mol	Joback Method
log10ws	-7.85		Crippen Method
logp	6.346		Crippen Method
mvol	334.770	ml/mol	McGowan Method
pc	1143.66	kPa	Joback Method
rinpol	3097.00		NIST Webbook
rinpol	3097.00		NIST Webbook
tb	974.18	K	Joback Method
tc	1194.89	K	Joback Method
tf	572.47	K	Joback Method
vc	1.292	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1101.23	J/molxK	974.18	Joback Method
cpg	1116.86	J/molxK	1010.97	Joback Method
cpg	1131.26	J/molxK	1047.75	Joback Method
cpg	1144.51	J/molxK	1084.54	Joback Method
cpg	1156.67	J/molxK	1121.32	Joback Method
cpg	1167.82	J/molxK	1158.11	Joback Method
cpg	1178.03	J/molxK	1194.89	Joback Method
dvisc	0.0004765	Paxs	572.47	Joback Method

dvisc	0.0002691	Paxs	639.42	Joback Method
dvisc	0.0001694	Paxs	706.37	Joback Method
dvisc	0.0001155	Paxs	773.33	Joback Method
dvisc	0.0000837	Paxs	840.28	Joback Method
dvisc	0.0000636	Paxs	907.23	Joback Method
dvisc	0.0000502	Paxs	974.18	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=U390007&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390007&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>

## 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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