

# Succinic acid, 2-ethylhexyl diphenylmethyl ester

Inchi:	InChI=1S/C25H32O4/c1-3-5-12-20(4-2)19-28-23(26)17-18-24(27)29-25(21-13-8-6-9-14-2
InchiKey:	IANJPZNAHXIFG-UHFFFAOYSA-N
Formula:	C25H32O4
SMILES:	CCCCC(CC)COC(=O)CCC(=O)OC(c1ccccc1)c1ccccc1
Mol. weight [g/mol]:	396.52

## Physical Properties

Property code	Value	Unit	Source
gf	-88.28	kJ/mol	Joback Method
hf	-586.43	kJ/mol	Joback Method
hfus	47.12	kJ/mol	Joback Method
hvap	93.33	kJ/mol	Joback Method
log10ws	-6.54		Crippen Method
logp	5.859		Crippen Method
mcvol	330.470	ml/mol	McGowan Method
pc	1232.88	kPa	Joback Method
rinpol	2842.00		NIST Webbook
rinpol	2842.00		NIST Webbook
tb	976.46	K	Joback Method
tc	1202.47	K	Joback Method
tf	538.67	K	Joback Method
vc	1.256	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1078.81	J/molxK	976.46	Joback Method
cpg	1093.50	J/molxK	1014.13	Joback Method
cpg	1106.75	J/molxK	1051.80	Joback Method
cpg	1118.61	J/molxK	1089.46	Joback Method
cpg	1129.15	J/molxK	1127.13	Joback Method
cpg	1138.45	J/molxK	1164.80	Joback Method
cpg	1146.56	J/molxK	1202.47	Joback Method
dvisc	0.0004239	Paxs	538.67	Joback Method

dvisc	0.0001934	Paxs	611.64	Joback Method
dvisc	0.0001043	Paxs	684.60	Joback Method
dvisc	0.0000634	Paxs	757.57	Joback Method
dvisc	0.0000420	Paxs	830.53	Joback Method
dvisc	0.0000298	Paxs	903.50	Joback Method
dvisc	0.0000222	Paxs	976.46	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U390171&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390171&amp;Units=SI</a>
<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>

## 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

Latest version available from:

<https://www.chemeo.com/cid/95-272-5/Succinic-acid-2-ethylhexyl-diphenylmethyl-ester.pdf>

Generated by Cheméo on 2024-05-08 21:33:10.334857257 +0000 UTC m=+17493239.255434572.

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