

# Sebacic acid, hexyl 2-phenylphenyl ester

<b>Inchi:</b>	InChI=1S/C28H38O4/c1-2-3-4-16-23-31-27(29)21-12-7-5-6-8-13-22-28(30)32-26-20-15-
<b>InchiKey:</b>	KRJFIVSCPOOOOH-UHFFFAOYSA-N
<b>Formula:</b>	C28H38O4
<b>SMILES:</b>	CCCCCOC(=O)CCCCCCCC(=O)Oc1ccccc1-c1ccccc1
<b>Mol. weight [g/mol]:</b>	438.60

## Physical Properties

Property code	Value	Unit	Source
gf	-67.77	kJ/mol	Joback Method
hf	-649.26	kJ/mol	Joback Method
hfus	61.54	kJ/mol	Joback Method
hvap	101.45	kJ/mol	Joback Method
log10ws	-9.11		Crippen Method
logp	7.503		Crippen Method
mvol	372.740	ml/mol	McGowan Method
pc	997.02	kPa	Joback Method
rinpol	3279.00		NIST Webbook
rinpol	3279.00		NIST Webbook
tb	1050.96	K	Joback Method
tc	1286.69	K	Joback Method
tf	615.00	K	Joback Method
vc	1.435	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1260.53	J/molxK	1050.96	Joback Method
cpg	1319.51	J/molxK	1247.40	Joback Method
cpg	1310.57	J/molxK	1208.11	Joback Method
cpg	1300.28	J/molxK	1168.83	Joback Method
cpg	1288.56	J/molxK	1129.54	Joback Method
cpg	1275.34	J/molxK	1090.25	Joback Method
cpg	1327.18	J/molxK	1286.69	Joback Method
dvisc	0.0000174	Paxs	1050.96	Joback Method

dvisc	0.0000226	Paxs	978.30	Joback Method
dvisc	0.0000306	Paxs	905.64	Joback Method
dvisc	0.0000437	Paxs	832.98	Joback Method
dvisc	0.0000668	Paxs	760.32	Joback Method
dvisc	0.0001118	Paxs	687.66	Joback Method
dvisc	0.0002110	Paxs	615.00	Joback Method

## Sources

<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=U355067&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U355067&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>

## Legend

<b>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</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/65-488-9/Sebacic-acid-hexyl-2-phenylphenyl-ester.pdf>

Generated by Cheméo on 2024-04-23 13:53:43.249737355 +0000 UTC m=+16169672.170314671.

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