

# Sebacic acid, 2-isopropylphenyl undecyl ester

**Inchi:** InChI=1S/C30H50O4/c1-4-5-6-7-8-9-12-15-20-25-33-29(31)23-16-13-10-11-14-17-24-30  
**InchiKey:** WOTKFPCNNAWFJN-UHFFFAOYSA-N  
**Formula:** C30H50O4  
**SMILES:** CCCCCCCCCCOC(=O)CCCCCCCCC(=O)Oc1ccccc1C(C)C  
**Mol. weight [g/mol]:** 474.72

## Physical Properties

Property code	Value	Unit	Source
gf	-165.78	kJ/mol	Joback Method
hf	-932.35	kJ/mol	Joback Method
hfus	69.16	kJ/mol	Joback Method
hvap	103.24	kJ/mol	Joback Method
log10ws	-9.79		Crippen Method
logp	8.910		Crippen Method
mvol	424.680	ml/mol	McGowan Method
pc	737.62	kPa	Joback Method
rinpol	3451.00		NIST Webbook
rinpol	3451.00		NIST Webbook
tb	1069.60	K	Joback Method
tc	1321.85	K	Joback Method
tf	596.12	K	Joback Method
vc	1.649	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1497.00	J/molxK	1069.60	Joback Method
cpg	1571.11	J/molxK	1279.81	Joback Method
cpg	1560.06	J/molxK	1237.77	Joback Method
cpg	1547.22	J/molxK	1195.73	Joback Method
cpg	1532.50	J/molxK	1153.68	Joback Method
cpg	1515.79	J/molxK	1111.64	Joback Method
cpg	1580.48	J/molxK	1321.85	Joback Method
dvisc	0.0000111	Paxs	1069.60	Joback Method

dvisc	0.0000148	Paxs	990.69	Joback Method
dvisc	0.0000208	Paxs	911.77	Joback Method
dvisc	0.0000312	Paxs	832.86	Joback Method
dvisc	0.0000509	Paxs	753.95	Joback Method
dvisc	0.0000931	Paxs	675.03	Joback Method
dvisc	0.0001997	Paxs	596.12	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=U354830&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U354830&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>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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