

# Sebacic acid, di(3,4-dimethylphenyl) ester

**Inchi:** InChI=1S/C26H34O4/c1-19-13-15-23(17-21(19)3)29-25(27)11-9-7-5-6-8-10-12-26(28)30  
**InchiKey:** IRJRAYOZKLHMGA-UHFFFAOYSA-N  
**Formula:** C26H34O4  
**SMILES:** Cc1ccc(OC(=O)CCCCCCCC(=O)Oc2ccc(C)c(C)c2)cc1C  
**Mol. weight [g/mol]:** 410.55

## Physical Properties

Property code	Value	Unit	Source
gf	-113.50	kJ/mol	Joback Method
hf	-642.39	kJ/mol	Joback Method
hfus	55.20	kJ/mol	Joback Method
hvap	98.98	kJ/mol	Joback Method
log10ws	-8.16		Crippen Method
logp	6.552		Crippen Method
mvol	344.560	ml/mol	McGowan Method
pc	1096.44	kPa	Joback Method
rinpol	3440.00		NIST Webbook
rinpol	3440.00		NIST Webbook
tb	1020.14	K	Joback Method
tc	1250.34	K	Joback Method
tf	630.02	K	Joback Method
vc	1.323	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1134.56	J/molxK	1020.14	Joback Method
cpg	1148.65	J/molxK	1058.51	Joback Method
cpg	1161.15	J/molxK	1096.87	Joback Method
cpg	1172.11	J/molxK	1135.24	Joback Method
cpg	1181.56	J/molxK	1173.61	Joback Method
cpg	1189.56	J/molxK	1211.98	Joback Method
cpg	1196.14	J/molxK	1250.34	Joback Method
dvisc	0.0001962	Paxs	630.02	Joback Method

dvisc	0.0001192	Paxs	695.04	Joback Method
dvisc	0.0000789	Paxs	760.06	Joback Method
dvisc	0.0000557	Paxs	825.08	Joback Method
dvisc	0.0000414	Paxs	890.10	Joback Method
dvisc	0.0000320	Paxs	955.12	Joback Method
dvisc	0.0000256	Paxs	1020.14	Joback Method

## Sources

<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=U354587&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U354587&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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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