

# Sebacic acid, di((1,3-benzodioxol-5-yl)methyl) ester

<b>Inchi:</b>	InChI=1S/C26H30O8/c27-25(29-15-19-9-11-21-23(13-19)33-17-31-21)7-5-3-1-2-4-6-8-26
<b>InchiKey:</b>	BLOJYYXMNWMWMI-UHFFFAOYSA-N
<b>Formula:</b>	C26H30O8
<b>SMILES:</b>	O=C(CCCCCCCC(=O)OCc1ccc2c(c1)OCO2)OCc1ccc2c(c1)OCO2
<b>Mol. weight [g/mol]:</b>	470.51

## Physical Properties

Property code	Value	Unit	Source
gf	-321.06	kJ/mol	Joback Method
hf	-984.11	kJ/mol	Joback Method
hfus	81.24	kJ/mol	Joback Method
hvap	117.47	kJ/mol	Joback Method
log10ws	-7.21		Crippen Method
logp	5.051		Crippen Method
mvol	346.320	ml/mol	McGowan Method
pc	1341.76	kPa	Joback Method
rinpol	3505.00		NIST Webbook
rinpol	3505.00		NIST Webbook
tb	1150.76	K	Joback Method
tc	1409.04	K	Joback Method
tf	780.66	K	Joback Method
vc	1.323	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1206.69	J/molxK	1150.76	Joback Method
cpg	1220.34	J/molxK	1193.81	Joback Method
cpg	1233.28	J/molxK	1236.85	Joback Method
cpg	1245.65	J/molxK	1279.90	Joback Method
cpg	1257.62	J/molxK	1322.94	Joback Method
cpg	1269.36	J/molxK	1365.99	Joback Method
cpg	1281.03	J/molxK	1409.04	Joback Method
dvisc	0.0003773	Paxs	780.66	Joback Method

dvisc	0.0002659	Paxs	842.34	Joback Method
dvisc	0.0001966	Paxs	904.03	Joback Method
dvisc	0.0001511	Paxs	965.71	Joback Method
dvisc	0.0001198	Paxs	1027.39	Joback Method
dvisc	0.0000976	Paxs	1089.08	Joback Method
dvisc	0.0000812	Paxs	1150.76	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=U380692&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U380692&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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