

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

<b>Inchi:</b>	InChI=1S/C25H38O6/c1-2-3-4-9-12-17-28-24(26)13-10-7-5-6-8-11-14-25(27)29-19-21-15
<b>InchiKey:</b>	AOPKLNIRDCWIW-UHFFFAOYSA-N
<b>Formula:</b>	C25H38O6
<b>SMILES:</b>	CCCCCCCOC(=O)CCCCCCCC(=O)OCc1ccc2c(c1)OCO2
<b>Mol. weight [g/mol]:</b>	434.57

## Physical Properties

Property code	Value	Unit	Source
gf	-318.85	kJ/mol	Joback Method
hf	-1006.20	kJ/mol	Joback Method
hfus	72.36	kJ/mol	Joback Method
hvap	102.40	kJ/mol	Joback Method
log10ws	-7.40		Crippen Method
logp	6.093		Crippen Method
mvol	355.110	ml/mol	McGowan Method
pc	1054.14	kPa	Joback Method
rinpol	3151.00		NIST Webbook
rinpol	3151.00		NIST Webbook
tb	1025.93	K	Joback Method
tc	1256.76	K	Joback Method
tf	642.61	K	Joback Method
vc	1.375	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1223.25	J/molxK	1025.93	Joback Method
cpg	1291.28	J/molxK	1218.29	Joback Method
cpg	1279.95	J/molxK	1179.81	Joback Method
cpg	1267.57	J/molxK	1141.34	Joback Method
cpg	1254.05	J/molxK	1102.87	Joback Method
cpg	1239.30	J/molxK	1064.40	Joback Method
cpg	1301.63	J/molxK	1256.76	Joback Method
dvisc	0.0000478	Paxs	1025.93	Joback Method

dvisc	0.0000600	Paxs	962.04	Joback Method
dvisc	0.0000778	Paxs	898.16	Joback Method
dvisc	0.0001050	Paxs	834.27	Joback Method
dvisc	0.0001490	Paxs	770.38	Joback Method
dvisc	0.0002251	Paxs	706.50	Joback Method
dvisc	0.0003693	Paxs	642.61	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U380691&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U380691&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>

## 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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