

# Sebacic acid, di(1-(4-fluorophenyl)ethyl) ester

**Inchi:** InChI=1S/C26H32F2O4/c1-19(21-11-15-23(27)16-12-21)31-25(29)9-7-5-3-4-6-8-10-26(30)  
**InchiKey:** RYAOYJQJFNWAPK-UHFFFAOYSA-N  
**Formula:** C26H32F2O4  
**SMILES:** CC(OC(=O)CCCCCCCCC(=O)OC(C)c1ccc(F)cc1)c1ccc(F)cc1  
**Mol. weight [g/mol]:** 446.53

## Physical Properties

Property code	Value	Unit	Source
gf	-488.74	kJ/mol	Joback Method
hf	-1022.23	kJ/mol	Joback Method
hfus	55.09	kJ/mol	Joback Method
hvap	95.25	kJ/mol	Joback Method
log10ws	-8.22		Crippen Method
logp	6.994		Crippen Method
mvol	348.100	ml/mol	McGowan Method
pc	1065.18	kPa	Joback Method
rinpol	2960.00		NIST Webbook
rinpol	2960.00		NIST Webbook
tb	1007.84	K	Joback Method
tc	1234.25	K	Joback Method
tf	576.16	K	Joback Method
vc	1.347	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1150.91	J/mol×K	1007.84	Joback Method
cpg	1164.84	J/mol×K	1045.58	Joback Method
cpg	1177.27	J/mol×K	1083.31	Joback Method
cpg	1188.26	J/mol×K	1121.05	Joback Method
cpg	1197.86	J/mol×K	1158.78	Joback Method
cpg	1206.13	J/mol×K	1196.52	Joback Method
cpg	1213.13	J/mol×K	1234.25	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=U380741&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U380741&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>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>h vap:</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>r in pol:</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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