

# Sebacic acid, di(2-(pentafluorophenoxy)ethyl) ester

<b>Inchi:</b>	InChI=1S/C26H24F10O6/c27-15-17(29)21(33)25(22(34)18(15)30)41-11-9-39-13(37)7-5-
<b>InchiKey:</b>	KKVWNYRSUPTDOU-UHFFFAOYSA-N
<b>Formula:</b>	C26H24F10O6
<b>SMILES:</b>	O=C(CCCCCCCC(=O)OCCOc1c(F)c(F)c(F)c(F)c1F)OCCOc1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	622.45

## Physical Properties

Property code	Value	Unit	Source
gf	-2329.38	kJ/mol	Joback Method
hf	-2936.75	kJ/mol	Joback Method
hfus	86.04	kJ/mol	Joback Method
hvap	99.60	kJ/mol	Joback Method
log10ws	-9.42		Crippen Method
logp	6.743		Crippen Method
mvol	374.000	ml/mol	McGowan Method
pc	774.18	kPa	Joback Method
rinpol	2902.00		NIST Webbook
rinpol	2902.00		NIST Webbook
tb	1087.56	K	Joback Method
tc	1380.38	K	Joback Method
tf	755.50	K	Joback Method
vc	1.540	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1241.72	J/mol×K	1087.56	Joback Method
cpg	1251.22	J/mol×K	1136.36	Joback Method
cpg	1257.20	J/mol×K	1185.17	Joback Method
cpg	1259.59	J/mol×K	1233.97	Joback Method
cpg	1258.33	J/mol×K	1282.77	Joback Method
cpg	1253.37	J/mol×K	1331.57	Joback Method
cpg	1244.65	J/mol×K	1380.38	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=U416788&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U416788&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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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