

# Sebacic acid, 2,5-difluorobenzyl pentyl ester

<b>Inchi:</b>	InChI=1S/C22H32F2O4/c1-2-3-10-15-27-21(25)11-8-6-4-5-7-9-12-22(26)28-17-18-16-19
<b>InchiKey:</b>	QTSCDVXJTUBEQP-UHFFFAOYSA-N
<b>Formula:</b>	C22H32F2O4
<b>SMILES:</b>	CCCCCOC(=O)CCCCCCCC(=O)OCc1cc(F)ccc1F
<b>Mol. weight [g/mol]:</b>	398.48

## Physical Properties

Property code	Value	Unit	Source
gf	-629.95	kJ/mol	Joback Method
hf	-1165.64	kJ/mol	Joback Method
hfus	57.73	kJ/mol	Joback Method
hvap	84.84	kJ/mol	Joback Method
log10ws	-7.02		Crippen Method
logp	5.862		Crippen Method
mvol	315.500	ml/mol	McGowan Method
pc	1091.38	kPa	Joback Method
rinpol	2629.00		NIST Webbook
rinpol	2629.00		NIST Webbook
tb	890.52	K	Joback Method
tc	1090.98	K	Joback Method
tf	534.66	K	Joback Method
vc	1.244	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1011.05	J/mol×K	890.52	Joback Method
cpg	1027.01	J/mol×K	923.93	Joback Method
cpg	1041.77	J/mol×K	957.34	Joback Method
cpg	1055.35	J/mol×K	990.75	Joback Method
cpg	1067.77	J/mol×K	1024.16	Joback Method
cpg	1079.07	J/mol×K	1057.57	Joback Method
cpg	1089.26	J/mol×K	1090.98	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=U380764&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U380764&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>

# 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>m cvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r inpol:</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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