

# Fumaric acid, pentafluorobenzyl dodec-2-en-1-yl ester

<b>Inchi:</b>	InChI=1S/C23H27F5O4/c1-2-3-4-5-6-7-8-9-10-11-14-31-17(29)12-13-18(30)32-15-16-19
<b>InchiKey:</b>	ZPQWPEBUOYMGNJ-AQASXUMVSA-N
<b>Formula:</b>	C23H27F5O4
<b>SMILES:</b>	CCCCCCCCC=CCOC(=O)C=CC(=O)OCc1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	462.45

## Physical Properties

Property code	Value	Unit	Source
gf	-1074.41	kJ/mol	Joback Method
hf	-1574.58	kJ/mol	Joback Method
hfus	68.80	kJ/mol	Joback Method
hvap	86.52	kJ/mol	Joback Method
log10ws	-8.14		Crippen Method
logp	6.222		Crippen Method
mcvol	326.300	ml/mol	McGowan Method
pc	977.17	kPa	Joback Method
rinpola	2639.00		NIST Webbook
rinpola	2639.00		NIST Webbook
tb	934.47	K	Joback Method
tc	1144.80	K	Joback Method
tf	575.10	K	Joback Method
vc	1.313	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1034.75	J/molxK	934.47	Joback Method
cpg	1049.50	J/molxK	969.53	Joback Method
cpg	1063.14	J/molxK	1004.58	Joback Method
cpg	1075.71	J/molxK	1039.64	Joback Method
cpg	1087.25	J/molxK	1074.69	Joback Method
cpg	1097.81	J/molxK	1109.75	Joback Method
cpg	1107.41	J/molxK	1144.80	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U405887&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405887&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<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>

# 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>hvp:</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>rinp:</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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