

# Fumaric acid, pentafluorophenyl tridecyl ester

<b>Inchi:</b>	InChI=1S/C23H29F5O4/c1-2-3-4-5-6-7-8-9-10-11-12-15-31-16(29)13-14-17(30)32-23-21
<b>InchiKey:</b>	BZEZPFBVHXBGED-BUHFOSPRSA-N
<b>Formula:</b>	C23H29F5O4
<b>SMILES:</b>	CCCCCCCCCCCCOC(=O)C=CC(=O)Oc1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	464.47

## Physical Properties

Property code	Value	Unit	Source
gf	-1154.63	kJ/mol	Joback Method
hf	-1691.80	kJ/mol	Joback Method
hfus	68.60	kJ/mol	Joback Method
hvap	86.56	kJ/mol	Joback Method
log10ws	-8.44		Crippen Method
logp	6.698		Crippen Method
mcvol	330.600	ml/mol	McGowan Method
pc	946.16	kPa	Joback Method
rinpol	2522.00		NIST Webbook
rinpol	2522.00		NIST Webbook
tb	930.31	K	Joback Method
tc	1140.68	K	Joback Method
tf	580.18	K	Joback Method
vc	1.333	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1062.86	J/mol×K	930.31	Joback Method
cpg	1078.14	J/mol×K	965.37	Joback Method
cpg	1092.17	J/mol×K	1000.43	Joback Method
cpg	1104.98	J/mol×K	1035.50	Joback Method
cpg	1116.60	J/mol×K	1070.56	Joback Method
cpg	1127.06	J/mol×K	1105.62	Joback Method
cpg	1136.38	J/mol×K	1140.68	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U348105&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U348105&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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