

# Fumaric acid, ethyl pentafluorobenzyl ester

<b>Inchi:</b>	InChI=1S/C13H9F5O4/c1-2-21-7(19)3-4-8(20)22-5-6-9(14)11(16)13(18)12(17)10(6)15/h3
<b>InchiKey:</b>	HIYKWQUZIAKFAY-ONEGZZNKSA-N
<b>Formula:</b>	C13H9F5O4
<b>SMILES:</b>	CCOC(=O)C=CC(=O)OCc1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	324.20

## Physical Properties

Property code	Value	Unit	Source
gf	-1238.83	kJ/mol	Joback Method
hf	-1485.40	kJ/mol	Joback Method
hfus	42.70	kJ/mol	Joback Method
hvap	64.30	kJ/mol	Joback Method
log10ws	-4.10		Crippen Method
logp	2.545		Crippen Method
mcvol	189.700	ml/mol	McGowan Method
pc	1905.24	kPa	Joback Method
rinpola	1659.00		NIST Webbook
rinpola	1659.00		NIST Webbook
tb	701.51	K	Joback Method
tc	884.49	K	Joback Method
tf	467.48	K	Joback Method
vc	0.773	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	499.78	J/molxK	701.51	Joback Method
cpg	510.07	J/molxK	732.01	Joback Method
cpg	519.79	J/molxK	762.50	Joback Method
cpg	528.95	J/molxK	793.00	Joback Method
cpg	537.54	J/molxK	823.50	Joback Method
cpg	545.57	J/molxK	854.00	Joback Method
cpg	553.03	J/molxK	884.49	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=U405890&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405890&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>
<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>hvap:</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>rinpola:</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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