

# 3-Ethylphenol, O-pentafluoropropionyl-

<b>Inchi:</b>	InChI=1S/C11H9F5O2/c1-2-7-4-3-5-8(6-7)18-9(17)10(12,13)11(14,15)16/h3-6H,2H2,1H3
<b>InchiKey:</b>	YTCZUNLWTSOWCF-UHFFFAOYSA-N
<b>Formula:</b>	C11H9F5O2
<b>SMILES:</b>	CCc1cccc(OC(=O)C(F)(F)C(F)(F)F)c1
<b>Mol. weight [g/mol]:</b>	268.18

## Physical Properties

Property code	Value	Unit	Source
gf	-1057.77	kJ/mol	Joback Method
hf	-1288.16	kJ/mol	Joback Method
hfus	21.26	kJ/mol	Joback Method
hvap	45.50	kJ/mol	Joback Method
log10ws	-3.98		Crippen Method
logp	3.352		Crippen Method
mcvol	158.380	ml/mol	McGowan Method
pc	2269.73	kPa	Joback Method
rinpol	1068.00		NIST Webbook
rinpol	1068.00		NIST Webbook
tb	548.92	K	Joback Method
tc	734.93	K	Joback Method
tf	332.62	K	Joback Method
vc	0.635	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	394.09	J/mol×K	548.92	Joback Method
cpg	406.67	J/mol×K	579.92	Joback Method
cpg	418.41	J/mol×K	610.92	Joback Method
cpg	429.35	J/mol×K	641.93	Joback Method
cpg	439.53	J/mol×K	672.93	Joback Method
cpg	449.00	J/mol×K	703.93	Joback Method
cpg	457.78	J/mol×K	734.93	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U374274&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U374274&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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