

# 2-Ethylphenol, pentafluorobenzoyl ester

<b>Inchi:</b>	InChI=1S/C15H9F5O2/c1-2-7-5-3-4-6-8(7)22-15(21)9-10(16)12(18)14(20)13(19)11(9)17
<b>InchiKey:</b>	CFYZHNKEXVUFJO-UHFFFAOYSA-N
<b>Formula:</b>	C15H9F5O2
<b>SMILES:</b>	CCc1ccccc1OC(=O)c1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	316.22

## Physical Properties

Property code	Value	Unit	Source
gf	-965.51	kJ/mol	Joback Method
hf	-1174.04	kJ/mol	Joback Method
hfus	38.54	kJ/mol	Joback Method
hvap	62.58	kJ/mol	Joback Method
log10ws	-6.02		Crippen Method
logp	4.164		Crippen Method
mcvol	190.980	ml/mol	McGowan Method
pc	1949.23	kPa	Joback Method
rinpol	1616.80		NIST Webbook
rinpol	1619.10		NIST Webbook
rinpol	1621.50		NIST Webbook
tb	698.48	K	Joback Method
tc	895.55	K	Joback Method
tf	461.88	K	Joback Method
vc	0.773	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	500.33	J/molxK	698.48	Joback Method
cpg	511.95	J/molxK	731.33	Joback Method
cpg	522.86	J/molxK	764.17	Joback Method
cpg	533.06	J/molxK	797.02	Joback Method
cpg	542.56	J/molxK	829.86	Joback Method
cpg	551.36	J/molxK	862.71	Joback Method
cpg	559.47	J/molxK	895.55	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R433075&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R433075&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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