

# 3-Phenylpropionic acid, pentafluorophenyl ester

Inchi:	InChI=1S/C15H9F5O2/c16-10-11(17)13(19)15(14(20)12(10)18)22-9(21)7-6-8-4-2-1-3-5-6
InchiKey:	MPTBVJWRSCFIGU-UHFFFAOYSA-N
Formula:	C15H9F5O2
SMILES:	O=C(CCc1ccccc1)Oc1c(F)c(F)c(F)c(F)c1F
Mol. weight [g/mol]:	316.22

## Physical Properties

Property code	Value	Unit	Source
gf	-955.88	kJ/mol	Joback Method
hf	-1162.57	kJ/mol	Joback Method
hfus	38.93	kJ/mol	Joback Method
hvap	61.92	kJ/mol	Joback Method
log10ws	-5.48		Crippen Method
logp	3.920		Crippen Method
mvol	190.980	ml/mol	McGowan Method
pc	1975.31	kPa	Joback Method
rinpol	1704.00		NIST Webbook
tb	693.50	K	Joback Method
tc	889.74	K	Joback Method
tf	449.36	K	Joback Method
vc	0.773	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	501.51	J/mol×K	693.50	Joback Method
cpg	513.26	J/mol×K	726.21	Joback Method
cpg	524.28	J/mol×K	758.91	Joback Method
cpg	534.56	J/mol×K	791.62	Joback Method
cpg	544.13	J/mol×K	824.33	Joback Method
cpg	553.00	J/mol×K	857.03	Joback Method
cpg	561.17	J/mol×K	889.74	Joback Method

# Sources

<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.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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U354737&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U354737&amp;Units=SI</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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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