

# Pentafluoropropanoic acid, 3,5-dimethylphenyl ester

<b>Inchi:</b>	InChI=1S/C11H9F5O2/c1-6-3-7(2)5-8(4-6)18-9(17)10(12,13)11(14,15)16/h3-5H,1-2H3
<b>InchiKey:</b>	DTZRJTHRASFDFS-UHFFFAOYSA-N
<b>Formula:</b>	C11H9F5O2
<b>SMILES:</b>	Cc1cc(C)cc(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	-1067.40	kJ/mol	Joback Method
hf	-1299.63	kJ/mol	Joback Method
hfus	20.87	kJ/mol	Joback Method
hvap	46.16	kJ/mol	Joback Method
log10ws	-4.13		Crippen Method
logp	3.406		Crippen Method
mvol	158.380	ml/mol	McGowan Method
pc	2237.64	kPa	Joback Method
tb	553.90	K	Joback Method
tc	740.92	K	Joback Method
tf	345.14	K	Joback Method
vc	0.635	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	393.86	J/molxK	553.90	Joback Method
cpg	406.14	J/molxK	585.07	Joback Method
cpg	417.62	J/molxK	616.24	Joback Method
cpg	428.34	J/molxK	647.41	Joback Method
cpg	438.34	J/molxK	678.58	Joback Method
cpg	447.65	J/molxK	709.75	Joback Method
cpg	456.31	J/molxK	740.92	Joback Method

# Sources

<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=U308002&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308002&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>

# 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>h vap:</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>m cvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<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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