

# Pentafluorobenzoic acid, isopropyl ester

<b>Other names:</b>	Isopropyl 2,3,4,5,6-pentafluorobenzoate Methylethyl pentafluorobenzoate
<b>Inchi:</b>	InChI=1S/C10H7F5O2/c1-3(2)17-10(16)4-5(11)7(13)9(15)8(14)6(4)12/h3H,1-2H3
<b>InchiKey:</b>	CHCGOIDAVLLILM-UHFFFAOYSA-N
<b>Formula:</b>	C10H7F5O2
<b>SMILES:</b>	CC(C)OC(=O)c1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	254.15
<b>CAS:</b>	41657-67-4

## Physical Properties

Property code	Value	Unit	Source
gf	-1112.83	kJ/mol	Joback Method
hf	-1301.18	kJ/mol	Joback Method
hfus	28.42	kJ/mol	Joback Method
hvap	48.12	kJ/mol	Joback Method
log10ws	-4.32		Crippen Method
logp	2.947		Crippen Method
mcvol	144.290	ml/mol	McGowan Method
pc	2282.77	kPa	Joback Method
rinpol	1100.00		NIST Webbook
rinpol	1063.00		NIST Webbook
rinpol	1085.00		NIST Webbook
rinpol	1068.00		NIST Webbook
rinpol	1070.00		NIST Webbook
rinpol	1100.00		NIST Webbook
ripol	1288.00		NIST Webbook
ripol	1326.00		NIST Webbook
ripol	1330.00		NIST Webbook
ripol	1330.00		NIST Webbook
ripol	1358.00		NIST Webbook
ripol	1358.00		NIST Webbook
tb	551.98	K	Joback Method
tc	727.88	K	Joback Method
tf	351.59	K	Joback Method
vc	0.596	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	340.29	J/mol×K	551.98	Joback Method
cpg	349.97	J/mol×K	581.30	Joback Method
cpg	359.27	J/mol×K	610.61	Joback Method
cpg	368.18	J/mol×K	639.93	Joback Method
cpg	376.71	J/mol×K	669.25	Joback Method
cpg	384.85	J/mol×K	698.56	Joback Method
cpg	392.60	J/mol×K	727.88	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=C41657674&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C41657674&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>

## 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>ripol:</b>	Non-polar retention indices
<b>ripol:</b>	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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