

# Hexyl 2,3,4,5,6-pentafluorobenzoate

<b>Other names:</b>	hexyl pentafluorobenzoate
<b>Inchi:</b>	InChI=1S/C13H13F5O2/c1-2-3-4-5-6-20-13(19)7-8(14)10(16)12(18)11(17)9(7)15/h2-6H2
<b>InchiKey:</b>	WVNPCCPQMDSFOU-UHFFFAOYSA-N
<b>Formula:</b>	C13H13F5O2
<b>SMILES:</b>	CCCCCCOC(=O)c1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	296.23

## Physical Properties

Property code	Value	Unit	Source
gf	-1085.13	kJ/mol	Joback Method
hf	-1357.82	kJ/mol	Joback Method
hfus	39.71	kJ/mol	Joback Method
hvap	55.19	kJ/mol	Joback Method
log10ws	-5.47		Crippen Method
logp	4.119		Crippen Method
mcvol	186.560	ml/mol	McGowan Method
pc	1752.14	kPa	Joback Method
ripol	1426.00		NIST Webbook
ripol	1433.00		NIST Webbook
ripol	1442.00		NIST Webbook
ripol	1418.00		NIST Webbook
ripol	1410.00		NIST Webbook
ripol	1419.00		NIST Webbook
ripol	1417.00		NIST Webbook
ripol	1417.00		NIST Webbook
ripol	1419.00		NIST Webbook
ripol	1704.00		NIST Webbook
ripol	1704.00		NIST Webbook
ripol	1723.00		NIST Webbook
ripol	1695.00		NIST Webbook
ripol	1720.00		NIST Webbook
ripol	1673.00		NIST Webbook
ripol	1688.00		NIST Webbook
ripol	1705.00		NIST Webbook
tb	621.06	K	Joback Method
tc	790.96	K	Joback Method
tf	400.40	K	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	481.72	J/mol×K	621.06	Joback Method
cpg	493.60	J/mol×K	649.38	Joback Method
cpg	504.97	J/mol×K	677.69	Joback Method
cpg	515.83	J/mol×K	706.01	Joback Method
cpg	526.19	J/mol×K	734.33	Joback Method
cpg	536.05	J/mol×K	762.65	Joback Method
cpg	545.42	J/mol×K	790.96	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U373590&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373590&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>
<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>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>rinpola:</b>	Non-polar retention indices
<b>ripola:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature

**tc:** Critical Temperature  
**tf:** Normal melting (fusion) point  
**vc:** Critical Volume

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