

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

<b>Other names:</b>	undecyl pentafluorobenzoate
<b>Inchi:</b>	InChI=1S/C18H23F5O2/c1-2-3-4-5-6-7-8-9-10-11-25-18(24)12-13(19)15(21)17(23)16(22)
<b>InchiKey:</b>	PAWOTZAVMHFMJY-UHFFFAOYSA-N
<b>Formula:</b>	C18H23F5O2
<b>SMILES:</b>	CCCCCCCCCCCCOC(=O)c1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	366.37

## Physical Properties

Property code	Value	Unit	Source
gf	-1043.03	kJ/mol	Joback Method
hf	-1461.02	kJ/mol	Joback Method
hfus	52.66	kJ/mol	Joback Method
hvap	66.32	kJ/mol	Joback Method
log10ws	-7.56		Crippen Method
logp	6.070		Crippen Method
mcvol	257.010	ml/mol	McGowan Method
pc	1214.90	kPa	Joback Method
rinpol	1908.00		NIST Webbook
rinpol	1903.00		NIST Webbook
rinpol	1928.00		NIST Webbook
rinpol	1916.00		NIST Webbook
rinpol	1912.00		NIST Webbook
rinpol	1909.00		NIST Webbook
rinpol	1910.00		NIST Webbook
rinpol	1910.00		NIST Webbook
rinpol	1928.00		NIST Webbook
rinpol	1909.00		NIST Webbook
ripol	2199.00		NIST Webbook
ripol	2195.00		NIST Webbook
ripol	2185.00		NIST Webbook
ripol	2195.00		NIST Webbook
ripol	2195.00		NIST Webbook
ripol	2182.00		NIST Webbook
ripol	2185.00		NIST Webbook
ripol	2199.00		NIST Webbook
ripol	2185.00		NIST Webbook
tb	735.46	K	Joback Method

tc	908.12	K	Joback Method
tf	456.75	K	Joback Method
vc	1.050	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	747.94	J/mol×K	735.46	Joback Method
cpg	762.76	J/mol×K	764.24	Joback Method
cpg	776.83	J/mol×K	793.01	Joback Method
cpg	790.17	J/mol×K	821.79	Joback Method
cpg	802.80	J/mol×K	850.57	Joback Method
cpg	814.71	J/mol×K	879.35	Joback Method
cpg	825.91	J/mol×K	908.12	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U373607&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373607&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>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>rinpol:</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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