

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

<b>Other names:</b>	dodecyl pentafluorobenzoate
<b>Inchi:</b>	InChI=1S/C19H25F5O2/c1-2-3-4-5-6-7-8-9-10-11-12-26-19(25)13-14(20)16(22)18(24)17
<b>InchiKey:</b>	LOVOYRLAEIBBPN-UHFFFAOYSA-N
<b>Formula:</b>	C19H25F5O2
<b>SMILES:</b>	CCCCCCCCCCCCOC(=O)c1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	380.39

## Physical Properties

Property code	Value	Unit	Source
gf	-1034.61	kJ/mol	Joback Method
hf	-1481.66	kJ/mol	Joback Method
hfus	55.25	kJ/mol	Joback Method
hvap	68.55	kJ/mol	Joback Method
log10ws	-7.98		Crippen Method
logp	6.460		Crippen Method
mcvol	271.100	ml/mol	McGowan Method
pc	1137.50	kPa	Joback Method
rinpol	2005.00		NIST Webbook
ripol	2293.00		NIST Webbook
tb	758.34	K	Joback Method
tc	933.16	K	Joback Method
tf	468.02	K	Joback Method
vc	1.105	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	804.82	J/mol×K	758.34	Joback Method
cpg	820.16	J/mol×K	787.48	Joback Method
cpg	834.70	J/mol×K	816.61	Joback Method
cpg	848.46	J/mol×K	845.75	Joback Method
cpg	861.44	J/mol×K	874.89	Joback Method
cpg	873.66	J/mol×K	904.02	Joback Method
cpg	885.14	J/mol×K	933.16	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=U372790&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U372790&amp;Units=SI</a>

# Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mc<sub>vol</sub>:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>ri<sub>npol</sub>:</b>	Non-polar retention indices
<b>ri<sub>pol</sub>:</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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