

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

<b>Other names:</b>	decyl pentafluorobenzoate
<b>Inchi:</b>	InChI=1S/C17H21F5O2/c1-2-3-4-5-6-7-8-9-10-24-17(23)11-12(18)14(20)16(22)15(21)13
<b>InchiKey:</b>	LXMRVZIXAUJRAE-UHFFFAOYSA-N
<b>Formula:</b>	C17H21F5O2
<b>SMILES:</b>	CCCCCCCCCOC(=O)c1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	352.34

## Physical Properties

Property code	Value	Unit	Source
gf	-1051.45	kJ/mol	Joback Method
hf	-1440.38	kJ/mol	Joback Method
hfus	50.07	kJ/mol	Joback Method
hvap	64.09	kJ/mol	Joback Method
log10ws	-7.14		Crippen Method
logp	5.680		Crippen Method
mcvol	242.920	ml/mol	McGowan Method
pc	1300.47	kPa	Joback Method
rinpol	1810.00		NIST Webbook
rinpol	1810.00		NIST Webbook
rinpol	1804.00		NIST Webbook
rinpol	1830.00		NIST Webbook
rinpol	1815.00		NIST Webbook
rinpol	1814.00		NIST Webbook
rinpol	1811.00		NIST Webbook
rinpol	1812.00		NIST Webbook
rinpol	1812.00		NIST Webbook
ripol	2100.00		NIST Webbook
ripol	2085.00		NIST Webbook
ripol	2082.00		NIST Webbook
ripol	2098.00		NIST Webbook
ripol	2096.00		NIST Webbook
ripol	2103.00		NIST Webbook
ripol	2089.00		NIST Webbook
tb	712.58	K	Joback Method
tc	883.70	K	Joback Method
tf	445.48	K	Joback Method
vc	0.994	m3/kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	692.16	J/mol×K	712.58	Joback Method
cpg	706.44	J/mol×K	741.10	Joback Method
cpg	720.04	J/mol×K	769.62	Joback Method
cpg	732.95	J/mol×K	798.14	Joback Method
cpg	745.19	J/mol×K	826.66	Joback Method
cpg	756.76	J/mol×K	855.18	Joback Method
cpg	767.67	J/mol×K	883.70	Joback Method

## Sources

<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=U373599&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373599&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>

## 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

**tf:** Normal melting (fusion) point

**vc:** Critical Volume

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