

# Phthalic acid, 1-(2,6-difluorophenyl)ethyl heptyl ester

Inchi:	InChI=1S/C23H26F2O4/c1-3-4-5-6-9-15-28-22(26)17-11-7-8-12-18(17)23(27)29-16(2)21
InchiKey:	WBSDWFTXCWYSGS-UHFFFAOYSA-N
Formula:	C23H26F2O4
SMILES:	CCCCCCCOC(=O)c1ccccc1C(=O)OC(C)c1c(F)cccc1F
Mol. weight [g/mol]:	404.45

## Physical Properties

Property code	Value	Unit	Source
gf	-521.19	kJ/mol	Joback Method
hf	-966.50	kJ/mol	Joback Method
hfus	50.45	kJ/mol	Joback Method
hvap	89.62	kJ/mol	Joback Method
log10ws	-7.62		Crippen Method
logp	6.010		Crippen Method
mcvol	305.830	ml/mol	McGowan Method
pc	1276.42	kPa	Joback Method
rinsol	2639.00		NIST Webbook
tb	944.62	K	Joback Method
tc	1162.27	K	Joback Method
tf	569.87	K	Joback Method
vc	1.185	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	969.39	J/mol×K	944.62	Joback Method
cpg	982.89	J/mol×K	980.90	Joback Method
cpg	995.06	J/mol×K	1017.17	Joback Method
cpg	1005.94	J/mol×K	1053.45	Joback Method
cpg	1015.55	J/mol×K	1089.72	Joback Method
cpg	1023.93	J/mol×K	1126.00	Joback Method
cpg	1031.11	J/mol×K	1162.27	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=U377797&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377797&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>

# 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>h vap:</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>m cvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r inpol:</b>	Non-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

Latest version available from:

<https://www.chemeo.com/cid/39-277-2/Phthalic-acid-1-2-6-difluorophenyl-ethyl-heptyl-ester.pdf>

Generated by Cheméo on 2024-05-03 08:07:42.568475156 +0000 UTC m=+17012911.489052468.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.