

# 2,6-Difluoro-3-methylbenzoic acid, tetradecyl ester

Inchi:	InChI=1S/C22H34F2O2/c1-3-4-5-6-7-8-9-10-11-12-13-14-17-26-22(25)20-19(23)16-15-1
InchiKey:	PZDPWCSZZMISIZ-UHFFFAOYSA-N
Formula:	C22H34F2O2
SMILES:	CCCCCCCCCCCCCOC(=O)c1c(F)ccc(C)c1F
Mol. weight [g/mol]:	368.50

## Physical Properties

Property code	Value	Unit	Source
gf	-405.66	kJ/mol	Joback Method
hf	-932.31	kJ/mol	Joback Method
hfus	54.56	kJ/mol	Joback Method
hvap	76.35	kJ/mol	Joback Method
log10ws	-8.29		Crippen Method
logp	7.131		Crippen Method
mvol	308.060	ml/mol	McGowan Method
pc	1048.69	kPa	Joback Method
rinpol	2515.00		NIST Webbook
rinpol	2515.00		NIST Webbook
tb	819.21	K	Joback Method
tc	1007.09	K	Joback Method
tf	475.02	K	Joback Method
vc	1.220	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	959.62	J/molxK	819.21	Joback Method
cpg	977.37	J/molxK	850.52	Joback Method
cpg	994.08	J/molxK	881.84	Joback Method
cpg	1009.80	J/molxK	913.15	Joback Method
cpg	1024.53	J/molxK	944.46	Joback Method
cpg	1038.32	J/molxK	975.78	Joback Method
cpg	1051.18	J/molxK	1007.09	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U338851&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U338851&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>hvp:</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>rinp:</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

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