

# 2,5-Difluorobenzoic acid, cyclohexyl ester

**Inchi:** InChI=1S/C13H14F2O2/c14-9-6-7-12(15)11(8-9)13(16)17-10-4-2-1-3-5-10/h6-8,10H,1-5H  
**InchiKey:** NBIGHVXKIHZSDM-UHFFFAOYSA-N  
**Formula:** C13H14F2O2  
**SMILES:** O=C(OC1CCCCC1)c1cc(F)ccc1F  
**Mol. weight [g/mol]:** 240.25

## Physical Properties

Property code	Value	Unit	Source
gf	-447.36	kJ/mol	Joback Method
hf	-680.76	kJ/mol	Joback Method
hfus	23.47	kJ/mol	Joback Method
hvap	56.08	kJ/mol	Joback Method
log10ws	-4.48		Crippen Method
logp	3.454		Crippen Method
mvol	170.390	ml/mol	McGowan Method
pc	2490.03	kPa	Joback Method
rinpol	1621.00		NIST Webbook
rinpol	1621.00		NIST Webbook
tb	627.86	K	Joback Method
tc	847.61	K	Joback Method
tf	368.45	K	Joback Method
vc	0.648	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	449.23	J/molxK	627.86	Joback Method
cpg	466.12	J/molxK	664.49	Joback Method
cpg	481.90	J/molxK	701.11	Joback Method
cpg	496.60	J/molxK	737.74	Joback Method
cpg	510.23	J/molxK	774.36	Joback Method
cpg	522.83	J/molxK	810.99	Joback Method
cpg	534.40	J/molxK	847.61	Joback Method

# Sources

<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=U357575&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357575&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>rinpola:</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/118-146-9/2-5-Difluorobenzoic-acid-cyclohexyl-ester.pdf>

Generated by Cheméo on 2024-04-27 19:53:56.476541511 +0000 UTC m=+16536885.397118824.

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