

# 1,2-Cyclohexanedicarboxylic acid, 3-fluorophenyl octyl ester

Inchi:	InChI=1S/C22H31FO4/c1-2-3-4-5-6-9-15-26-21(24)19-13-7-8-14-20(19)22(25)27-18-12-
InchiKey:	RMBWDOAYNPQBQY-UHFFFAOYSA-N
Formula:	C22H31FO4
SMILES:	CCCCCCCCOC(=O)C1CCCCC1C(=O)Oc1cccc(F)c1
Mol. weight [g/mol]:	378.48

## Physical Properties

Property code	Value	Unit	Source
gf	-408.77	kJ/mol	Joback Method
hf	-924.08	kJ/mol	Joback Method
hfus	47.95	kJ/mol	Joback Method
hvap	85.12	kJ/mol	Joback Method
log10ws	-6.25		Crippen Method
logp	5.441		Crippen Method
mvol	302.870	ml/mol	McGowan Method
pc	1280.08	kPa	Joback Method
rinpol	2602.00		NIST Webbook
rinpol	2602.00		NIST Webbook
tb	901.15	K	Joback Method
tc	1114.21	K	Joback Method
tf	524.69	K	Joback Method
vc	1.157	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1003.94	J/molxK	901.15	Joback Method
cpg	1020.63	J/molxK	936.66	Joback Method
cpg	1035.78	J/molxK	972.17	Joback Method
cpg	1049.43	J/molxK	1007.68	Joback Method
cpg	1061.61	J/molxK	1043.19	Joback Method
cpg	1072.33	J/molxK	1078.70	Joback Method
cpg	1081.64	J/molxK	1114.21	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U339402&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339402&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>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

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