

# 6-Fluoro-2-trifluoromethylbenzoic acid, nonadecyl ester

**Inchi:** InChI=1S/C27H42F4O2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-22-33-26(32)25  
**InchiKey:** RDXMJWNWVGKMXND-UHFFFAOYSA-N  
**Formula:** C27H42F4O2  
**SMILES:** CCCCCCCCCCCCCCCCCOC(=O)c1c(F)cccc1C(F)(F)F  
**Mol. weight [g/mol]:** 474.61

## Physical Properties

Property code	Value	Unit	Source
gf	-740.71	kJ/mol	Joback Method
hf	-1425.01	kJ/mol	Joback Method
hfus	66.64	kJ/mol	Joback Method
hvap	83.89	kJ/mol	Joback Method
log10ws	-10.68		Crippen Method
logp	9.653		Crippen Method
mvol	382.050	ml/mol	McGowan Method
pc	761.42	kPa	Joback Method
rinpol	2835.00		NIST Webbook
rinpol	2835.00		NIST Webbook
tb	923.94	K	Joback Method
tc	1134.00	K	Joback Method
tf	522.45	K	Joback Method
vc	1.524	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1283.74	J/mol×K	923.94	Joback Method
cpg	1303.48	J/mol×K	958.95	Joback Method
cpg	1321.90	J/mol×K	993.96	Joback Method
cpg	1339.07	J/mol×K	1028.97	Joback Method
cpg	1355.09	J/mol×K	1063.98	Joback Method
cpg	1370.02	J/mol×K	1098.99	Joback Method
cpg	1383.96	J/mol×K	1134.00	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=U338993&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U338993&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r in pol:</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.cheméo.com/cid/114-936-6/6-Fluoro-2-trifluoromethylbenzoic-acid-nonadecyl-ester.pdf>

Generated by Cheméo on 2024-05-07 01:42:40.026429104 +0000 UTC m=+17335408.947006420.

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